

KTC-91-11

**SUMMARY OF RESULTS OF 1990 FIELD
AND LABORATORY EVALUATIONS OF
PAVEMENT MARKING MATERIALS**

SASHTO REGIONAL TEST FACILITY

prepared by

Kentucky Transportation Center
University of Kentucky

in cooperation with

Kentucky Transportation Cabinet
Commonwealth of Kentucky

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State of Alabama

and

Louisiana Department of Transportation
State of Louisiana

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INTRODUCTION

This report summarizes the results of data collected as part of the 1990 field and laboratory evaluations of pavement marking materials for the SASHTO Regional Test Facility. The purpose of the Regional Test Facility (RTF) is to minimize the amount of field and laboratory research testing of specific types of materials. This is accomplished by combining efforts in an organized manner to reduce the monetary and man-hour requirements of both the states and industry. A RTF for the twelve SASHTO states was approved at the 1988 SASHTO convention. The twelve SASHTO states are Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia.

The SASHTO Regional Test Facility (SRTF) began operation in November 1988 when informational packets were mailed to all known manufacturers of four types of material. One type of material was classified as striping materials. The manufacturers had until 5:00 p.m. at the end of the first working day in January to submit a Product Evaluation Form, a check for the testing fee, sample materials, and other pertinent information to the coordinator of the SRTF in order to have their product considered for inclusion in the testing process for that calendar year. A testing fee of \$2,000 per sample was established for the striping materials. This fee covered the cost of performing the required field and laboratory tests and reporting the results.

Different states were selected to perform the tests for the various materials. For the striping materials, Kentucky was selected as the lead state responsible for reporting the results. Alabama was selected as the support state. Identical field installations were placed in Kentucky and Alabama. The laboratory tests were performed by Louisiana. The Transportation Center at the University of Kentucky performed the work in Kentucky for the Kentucky Transportation Cabinet. The Alabama Highway Department conducted the field tests in Alabama while the Louisiana Department of Transportation performed the laboratory tests in Louisiana.

The report is the second summary of field and laboratory evaluations of pavement marking materials at the SASHTO Regional Test Facility. The previous summary dealt with the 1989 evaluation.

PROCEDURE

The procedure was developed by a task force established by the Standing Committee of the SRTF. The evaluation procedures were the standard for the RTF. Following is a description of the testing procedures used.

SITE LOCATION

Field test decks on both Portland cement concrete (PCC) and bituminous concrete (asphalt) surfaces were evaluated. The decks were selected using the guidelines of ASTM D-713. Four-lane divided sections were considered desirable with a minimum average daily traffic (ADT) for the outside lane of 5,000. The field site had to be free-rolling with no grades, curves, or intersections or access points near enough to cause excessive braking or turning movements and had to have good drainage. The wear was to be uniform with full exposure to the sun throughout daylight hours. The surfaces had to be representative of the pavements upon which the traffic marking materials would be applied in practice. Originally, a requirement was that the test deck had to have been open to traffic for at least two years, but this requirement was changed to a minimum of one year.

MATERIALS TESTED

A total of 103 materials were originally approved for testing with 88 materials actually placed. When divided into specific categories, 59 materials would be classified as a paint, 4 were thermoplastic, 19 were a nonremovable tape, and 6 were a removable tape. A listing of the materials is given in Table 1. Each material is assigned a number as shown in Table 1. This reference number is used when reporting the results of the evaluations.

INSTALLATION

The test installations were placed in Alabama in May 1990 and were placed in Kentucky in June 1990. In Kentucky, both the asphalt and PCC installations were placed on Interstate 64 near Frankfort. The asphalt installation was near milepoint 52 and had an average daily traffic (ADT) of about 20,000 while the PCC installation was near milepoint 61 and had an ADT of approximately 19,000. In Alabama, both the asphalt and PCC installations were placed on southbound Interstate 65. The asphalt installation was near milepoint 140 and had an average daily traffic (ADT) of about 8,765 southbound while the PCC installation was near milepoint 123 and had an ADT of approximately 7,885 southbound. The dates and times of the test stripe installations are given in Tables 2 and 3 for Kentucky and Alabama, respectively.

All of the striping materials were installed by the manufacturers. The manufacturers supplied all the necessary installation equipment. The state supervised the installation and provided traffic control. Various types of striping materials were included. Both liquid and preformed marking materials were evaluated. Because of the large number of paints that could be submitted for testing, a maximum number of 25 paint samples per manufacturer was established. The specific quantity limits were three colors (white, lead based yellow, and organic

yellow), three binder systems (alkyd and/or chlorinated rubber and water base), three no-track times (60 seconds, 90 seconds, and 3 minutes), and no more than three samples made up of combinations of color, binder system, and no-track time.

Each manufacturer supplied one five gallon container of each type of liquid marking material. The manufacturers were required to supply a two-quart sample of liquid materials and a 20-foot sample of tapes at the test site. These samples were used for laboratory testing. For the paint portion of the study, AASHTO Type 1 moistureproof glass beads were used and were supplied by the states. In specific instances, a request could be made to use another glass bead for a specific marking material and samples of any type of glass bead used would be obtained. No special beads were used for any materials placed as part of the 1990 test. Primer was used with some of the thermoplastic material and some tapes. Use of a primer was noted. Samples were obtained of any primer used.

With the exception of some of the removable tape lines, the test lines were transverse lines approximately 12 feet in length and 4 inches wide placed in the shoulder lane. The only exceptions were six longitudinal lane lines 10 feet in length which were placed for each removable tape. The transverse lines were placed at 8- to 12- inch centers.

For the liquid materials (including the thermoplastic material), four beaded lines and one unbeaded line were placed for each sample. For the preformed tape, four lines were placed for each sample. For removable tape, six transverse lines and six longitudinal lines were installed for each sample.

Liquid materials were applied at a wet film thickness of 15 plus or minus one mil. Glass beads were to be applied at a rate of six plus or minus 0.5 pound per gallon of paint, unless specifically designated otherwise. Manufacturers were responsible for machine calibration and roofing paper was supplied by the evaluators for calibration purposes. Each manufacturer notified the evaluators when they were ready to commence installation. An unbeaded check stripe was placed on an aluminum panel and weighed for determination of mil thickness. After the mil thickness met the established guidelines, a beaded stripe was placed on the aluminum panel and weighed to check the bead application rate. After the bead application rate met the established guidelines, the test lines were applied. The mil thickness and bead application rate of each liquid sample were recorded (Tables 4 and 5).

For the thermoplastic material, the manufacturer prepared the material and notified the evaluators when they were prepared to install the test lines. No pre-installation checks of thickness or bead application rate were conducted. The minimum mil thickness for thermoplastic material was to be 60 mils. The average mil thicknesses measured for the various installed thermoplastic materials are given in Table 6.

The preformed tapes (both removable and non-removable) were placed by the manufacturers at the locations indicated by the evaluators.

The test deck was divided into several sections. The first portion of the test deck was used for the checking of no-track times. Unbeaded liquid materials were placed in the first section followed by unbeaded thermoplastic material. There was one unbeaded line for each material. The beaded liquid material was placed next. Two sets of two lines each were placed for each material resulting in four beaded lines placed for each material. The same procedure was then used for the thermoplastic material. Next, two sets of two lines each were placed for the nonremovable preformed tape. Separating the four transverse lines into two sets of two lines each was done so that all the lines for one manufacturer would not be placed at one location. The removable tapes were then placed. Six transverse and six longitudinal lines were placed for each material.

On the Kentucky test deck, samples STR-90-91 through STR-90-95 were not received until the installations on the asphalt deck was completed so they were only placed on the PCC deck. Also, only a portion of samples STR-90-76 and STR-90-77 were placed on the PCC deck and a portion of both materials (removable tape) were removed early because of problems with the installation.

No-track tests were conducted for the liquid materials using the no-track time requested by the manufacturer. These tests were conducted after placement of the unbeaded and beaded lines. A vehicle was driven over the test line at the specified time after placement at a speed of approximately 10 mph. The no-track determination was judged at a distance of 50 feet. The results of the no-track tests are given in Table 7. The mil thickness that each line was placed as well as the relative humidity and air temperature at the time of each no-track test are given in Table 7.

The air and pavement temperatures as well as the relative humidity were recorded hourly during times of installation. The application temperature was obtained for the liquid material at the time of the no-track time test. The weather conditions during the test stripe installations are shown in Tables 8 and 9 for Kentucky and Alabama, respectively.

FIELD DATA COLLECTION

Field data collection was initially made within a few days of the original installation and then at monthly intervals for a one-year period such that 12 sets of data were collected. The types of data collected at the field installations in Alabama and Kentucky included subjective ratings of the appearance and durability of all the stripes, reflectivity measurements of each stripe using a Mirolux 12 portable retroreflectometer, and subjective ratings of the removability and discernability of the

removable tapes. In Kentucky, data concerning the brightness of each stripe was obtained using a colormeter. A Colorgard II Reflectometer was used for the colormeter data. The subjective ratings were made with a team of three evaluators for each data collection period with the average reported.

In addition to the monthly data collection for the materials placed on the 1990 test deck, data were collected on four-month intervals for materials (permanent and nonremovable tapes, thermoplastics, and paints) on the 1989 test deck. The same type of data and same procedure was used for the data collection on both test decks.

The subjective appearance rating is the complete impression conveyed when the stripe is viewed at a distance of at least 10 feet before any detailed inspection has been made. It includes a comparison of the color of the surface under consideration with the original color, taking into account changes due to such factors as yellowing, bleeding, darkening, fading, dirt collection, and mold growth. This rating was made without preliminary washing or other modification of the surface of the test lines and a rating of 0 to 10 was made with 10 being the highest rating.

The subjective durability rating was obtained by rating both the left and right wheel paths in the transverse line and averaging the ratings. The area covering 9 inches on each side of the mid-point of the wheel path was viewed and the percentage of the stripe remaining (nonexposed substrate) was estimated. Ten percent of this number was the rating assigned. For example, a stripe with no wear would receive a rating of 10 while a stripe with 60 percent of the stripe remaining would receive a rating of a 6.

The Mirolux 12 measurements were taken in the left wheel path and centerline area of each transverse stripe and in the center of each longitudinal stripe. Reference points were marked on the pavement so the data would be collected at the same points each month. Data were taken for both the beaded and unbeaded paint and thermoplastic lines as well as for the various tapes. The Mirolux 12 measurements were reported in units of millicandelas per square foot per footcandle (or millicandelas).

The colormeter data were taken in the left wheel path and center line area of each transverse stripe and in the center of each longitudinal stripe. Data were taken for both the beaded and unbeaded paint and thermoplastic lines as well as for the various tapes. The colormeter data are dimensionless with higher numbers representing a brighter line.

During each of the first six monthly inspections, one lateral and one transverse stripe of each removable tape were removed. After six months, all of the removable tape had been removed. The removability of each line was subjectively rated each month when it was removed using a scale of 0 to 10. A 10 rating would be for a line

which was easily removable in one complete section while a 0 rating was for a line which was removable in only very small pieces. The ability to discern on the pavement where the removable tape was removed was subjectively rated for each stripe until the point that a particular stripe was removed could not be discerned. A discernable marking is any marking, stain, or discoloration that can be detected on the pavement surface under any light or weather condition after line removal. A 10 rating was for a line which left no discernable markings while a 0 rating was for a line which was completely discernable.

Weather information over the evaluation period is given for the Kentucky and Alabama test sites in Table 10. This information is summarized by month and includes the average temperature, total rainfall, and total snowfall. Information concerning the extent of snowplow operation at the Kentucky sites was obtained. As shown in Table 10, there was only 5.8 inches of snow reported during the winter of 1990-91. It was found that there had been a total of 15 snowplow passes at each of the sites.

LABORATORY EVALUATIONS

The evaluations were divided into four categories based on the material tested. These categories were thermoplastic, solventborne traffic paint, waterborne traffic paint, and traffic striping tape. The tests performed in the evaluation of the thermoplastic included softening point, specific gravity, bond strength, indentation resistance (Type A), flowability, flowability (extended heating), low temperature stress resistance, and bead content and grading. The tests performed in the evaluation of the solventborne traffic paint included pigment content, total solids, no track dry time, viscosity, opacity (contrast ratio), infrared spectra, and X-ray diffraction. The tests performed in the evaluation of the waterborne (acrylic latex polymer) traffic paint included pigment content, total solids, no track dry time, viscosity, heat stability, freeze-thaw stability, water resistance, opacity (contrast ratio), infrared spectra, and X-ray diffraction. A tensile strength test was performed on the traffic striping tape.

The laboratory tests were conducted on either the sample from Kentucky or Alabama.

RESULTS

REFLECTIVITY DATA

The reflectivity data obtained with the Mirolux 12 are presented in Tables 11 and 12 for the asphalt pavement at the Kentucky and Alabama test sites, respectively. Data taken on the PCC pavements are presented in Tables 13 and 14. The data are for all materials except the removable tapes and the unbeaded stripes. For each

material, the averages of the data taken for the four transverse lines are given. The average measurements in the left wheelpath and centerline areas are presented separately. The materials are grouped into several categories based on the type of material and no-track time.

Reflectivity data for beaded paint, beaded thermoplastic, and nonremovable tape transverse lines placed on the 1989 test deck are given in Appendix A. Data were obtained as described in Tables 11 through 14. Data are given in four-month intervals for a two-year period.

For the paint and thermoplastic lines, the reflectivity measurements for the unbeaded transverse lines are given in Tables 15 and 16 for the asphalt pavement at the Kentucky and Alabama test sites, respectively. Data taken on the PCC pavements are given in Tables 17 and 18. The measurements in the left wheel path and centerline areas are presented separately.

For the removable tapes, the reflectivity measurements taken on asphalt pavements are presented in Tables 19 and 20 with data on PCC pavements presented in Tables 21 and 22. Data are given for the time period to six months after installation. At this point, all lines were removed. The data for each month represents the stripes remaining that month. Data were not available for STR-90-76 and STR-90-77 for several months because of the loss of several stripes. The average measurements in the left wheel path and centerline areas of the transverse stripes and the center of the longitudinal stripes are presented separately.

DURABILITY

The durability data for the beaded paint and thermoplastic lines and nonremovable tape lines are given in Tables 23 and 24 for the asphalt pavements and Tables 25 and 26 for the PCC pavements at the Kentucky and Alabama test sites, respectively. For each material, the averages of the ratings for the four transverse lines are given.

Durability data for the beaded paint, beaded thermoplastic, and nonremovable tape transverse lines placed on the 1989 test deck are given in Appendix A. Data are presented as described in Tables 23 through 26. Data are given in four-month intervals over a two-year period.

Ratings for the unbeaded paint and thermoplastic lines are given in Tables 27 and 28 for asphalt pavements and Tables 29 and 30 for the PCC pavements at the Kentucky and Alabama test sites, respectively. Durability data were not collected for the removable tapes.

While durability data were not taken for the removable tape, some durability problems were experienced. Failure of the removable tape referred to a loss of bond between the tape and the pavement. On the asphalt test deck in Kentucky, 11 stripes failed. Nine of the stripes were transverse (three for STR-90-3, one for STR-90-4, and five for STR-90-76). Two longitudinal stripes of STR-90-76 also failed. There were three failures of transverse lines on the PCC deck (all for STR-90-76).

APPEARANCE

The appearance data for the beaded paint and thermoplastic lines and nonremovable tape are given in Tables 31 and 32 for the asphalt pavements and Tables 33 and 34 for the PCC pavements at the Kentucky and Alabama test sites, respectively. For each material, the averages of the ratings for the four transverse lines are given.

Appearance data for the beaded paint, beaded thermoplastic, and nonremovable tape transverse lines placed on the 1989 test deck are given in Appendix A. Data are presented as described in Tables 31 through 34. Data are given in four-month intervals over a two-month period.

Ratings for the unbeaded paint and thermoplastic lines are given in Tables 35 and 36 for the asphalt pavements and Tables 37 and 38 for the PCC pavements at the Kentucky and Alabama test sites, respectively. Appearance data were not collected for the removable tapes.

COLORMETER

Colormeter data were taken only in Kentucky. Colormeter data for the transverse stripes (excluding unbeaded lines and removable tapes) are given in Tables 39 and 40. The data are an average of all transverse stripes for a given material. Separate measurements are given for the wheel path and centerline areas. Data for the unbeaded paint and unbeaded thermoplastic lines are given in Tables 41 and 42. Separate measurements are given for the wheelpath and centerline areas.

Colormeter data for the removable stripes are given in Tables 43 and 44. The averages of all remaining stripes are given. Separate averages are given for the transverse and longitudinal removable stripes.

Colormeter data for beaded paint, beaded thermoplastic, and nonremovable tape transverse lines placed on the 1989 test deck are given in Appendix A. Data are presented as described in Tables 39 and 40. Data are presented at four-month intervals over a two-year period.

REMOVABILITY

One transverse and one longitudinal removable stripe were removed each month for six months on both pavement types. The removability ratings are presented in Tables 45 and 46 for the asphalt pavements and Tables 47 and 48 for the PCC pavements at the Kentucky and Alabama test sites, respectively. Ratings are from 0 to 10 with higher ratings for material which was easier to remove. The ratings for the transverse and longitudinal stripe removed each month are given with an average calculated for the ratings over the study period. Data is not given when the stripe that was to be removed in a given month was not in place. It was found that the ability of the tapes to be removed was related to temperature with the tapes being much harder to remove when the temperature was extremely cold. It was also much easier to remove the longitudinal stripes compared to the transverse stripes. The major problem with removal of the transverse stripes was in the wheel paths.

DISCERNABILITY

The discernability of each removable tape stripe which had been removed was rated each month. The discernability ratings are presented in Tables 49 and 50 for the asphalt pavements and Tables 51 and 52 for the PCC pavements at the Kentucky and Alabama test sites, respectively. The ratings were averaged separately for the transverse and longitudinal lines as a function of the length of time a given stripe had been removed. A 10 rating was for a line which left no discernable markings. Ratings were not taken for stripes which failed and were not removed as part of the evaluation.

On the PCC test site in Alabama, the discernability ratings for 4T, 4L, 3T, and 3L indicate the discernability varied from month to month, but generally increased over time. This was due to the residue left after the tape was removed from the concrete pavement. As the residue aged, it became darker and contrasted with the concrete pavement.

LABORATORY TESTS

A description of the test methods and the results of the laboratory tests are given in Appendix B for thermoplastic material, Appendix C for solventborne traffic paint, Appendix D for waterborne (acrylic latex polymer) traffic paint, and Appendix E for traffic striping tape. The specific test methods used are referenced. The results for each material type are summarized, and the specific results of the tests for each material are listed.

Of the samples that were submitted, five could not be tested for various reasons. Samples from STR-90-70 and STR-90-71 were polyester paint and only one component was submitted such that it did not cure. The sample from STR-90-78 was two component liquid thermoplastic and was not suitable for testing. The samples from STR-90-92 and STR-90-93 gelled before testing.

TABLE 1. STRIPING MATERIALS TESTED RTF90

COMPANY OR STATE	SAMPLE NUMBER*	TYPE*
Volare	STR-90-1	Director White Tape P
	STR-90-2	Director Yellow Tape P
	STR-90-3	Director-2 Yellow Tape R
	STR-90-4	Director-2 White Tape R
Centerline Industries	STR-90-5	CL-0006 White Paint LF-ALP (FD 60)
	STR-90-6	CL-0002 White Paint LF-A (FD 60)
	STR-90-7	CL-0003 Yellow Paint L-A (FD 60)
	STR-90-8	CL-0009 Yellow Paint LF-A (FD 60)
	STR-90-9	CL-0007 Yellow Paint L-ALP (FD 60)
	STR-90-10	CL-0011 Yellow Paint LF-ALP (FD 60)
	STR-90-11	CL-0004 White Paint CP (3 M)
	STR-90-12	CL-0005 Yellow Paint CP (3 M)
	STR-90-13	Scotchlane Tape NR Yellow Construction Grade Series 5161
	STR-90-14	Scotchlane Tape NR White Construction Grade Series 5160
3M	STR-90-15	Stamark Tape P Yellow Intersection Grade N361
	STR-90-16	Stamark Tape P White Intersection Grade N360
	STR-90-17	Scotchlane Tape R White Detour Grade Series 5710
	STR-90-18	Scotchlane Tape R Yellow Detour Grade Series 5711
	STR-90-19	Stamark Pliant Polymer P White Tape Series 5760
	STR-90-20	Stamark Pliant Polymer P White Tape Series 5730

TABLE 1. STRIPING MATERIALS TESTED (continued) RTF90

COMPANY OR STATE	SAMPLE NUMBER*	TYPE*
3M	STR-90-21	Stamark Pliant Polymer P Yellow Tape Series 5731
	STR-90-27	Stamark P White Tape Series 320
	STR-90-28	Stamark P Yellow Tape Series 321
	STR-90-29	Stamark Pliant Polymer P Yellow Tape Series 351
	STR-90-30	Stamark Pliant Polymer P White Tape Series 350
	STR-90-31	Stamark Pliant Polymer P Yellow Tape Series A381
	STR-90-32	Stamark Pliant Polymer P White Tape Series A380
Baltimore Paint	STR-90-33	BP57-01 Hotline White Paint LF-A (FD 60)
	STR-90-34	BP57-02 Hotline Yellow Paint L-A (FD 60)
	STR-90-35	BP57-03 Hotline White Paint LF-A (FD 60)
	STR-90-36	BP57-04 Hotline Yellow Paint L-A (FD 60)
	STR-90-37	BP57-05 Hotline White Paint LF-A (FD 60)
	STR-90-38	BP57-06 Hotline Yellow Paint L-A (FD 60)
	STR-90-39	BP57-07 Hotline White Paint LF-ALP (FD 60)
	STR-90-40	BP57-08 Hotline Yellow Paint L-ALP (FD 60)
	STR-90-41	BP57-09 Hotline Yellow Paint LF-ALP (FD 60)
	STR-90-42	BP57-10 Hotline White Paint LF-ALP (FD 60)

TABLE 1. STRIPING MATERIALS TESTED (continued) RTF90

COMPANY OR STATE	SAMPLE NUMBER*	TYPE*
	STR-90-43	BP57-11 Hotline Yellow Paint LF-ALP (FD 60)
	STR-90-44	BP57-12 Hotline Yellow Paint L-ALP (FD 60)
	STR-90-45	BP57-13 Hotline White Paint LF-ALP (FD 60)
	STR-90-46	BP57-14 Hotline Yellow Paint L-ALP (FD 60)
	STR-90-47	BP57-15 Hotline Yellow Paint LF-ALP (FD 60)
	STR-90-48	BP57-16 Hotline White Paint LF-ALP (FD 60)
	STR-90-57	BP57-25 Hotline Yellow Paint LF-ALP (FD 60)
Linear Dynamics	STR-90-58	Prismo Plastix Series A White Tape P
	STR-90-59	Prismo Plastix Series A Yellow Tape P
	STR-90-60	LW90-1-A Yellow Paint LF-ALP (FD 60)
	STR-90-61	LW90-1-B White Paint LF-ALP (FD 60)
	STR-90-62	LW90-1-E Yellow Extruded Thermoplastic H
	STR-90-63	LW90-1-C Yellow Paint L-ALP (FD 60)
	STR-90-64	LW90-1-G White Paint LF-A (FD 60)
	STR-90-65	LW90-1-H Yellow Paint L-A (FD 60)
AExcell Corporation	STR-90-66	White Paint LF-A (FD 120)
	STR-90-67	Yellow Paint L-A (FD 120)

TABLE 1. STRIPING MATERIALS TESTED (continued) RTF90

COMPANY OR STATE	SAMPLE NUMBER*	TYPE*
AExcell Corporation	STR-90-68	White Paint LF-ALP (FD 120)
	STR-90-69	Yellow Paint L-ALP (FD 120)
	STR-90-70	White Polyester Paint LF
	STR-90-71	Yellow Polyester Paint L
Swarco Industries	STR-90-72	White Extruded Thermoplastic LF-A
	STR-90-73	Yellow Extruded Thermoplastic L-A
Brite-Line Industries	STR-90-74	Yellow Tape Series 1000 P
	STR-90-75	White Tape Series 1000 P
	STR-90-76	White Tape Series 100 R
	STR-90-77	Yellow Tape Series 100 R
Norris Paint	STR-90-78	White Extruded Thermoplastic Two-component Cold Curing
Louisiana	STR-90-80	Yellow Paint L-A (FD 60)
	STR-90-81	White Paint LF-A (FD 60)
	STR-90-82	Yellow Paint L-ALP (FD 60)
	STR-90-83	White Paint LF-ALP (FD 60)
South Carolina	STR-90-84	White Paint LF-A (FD 60)
	STR-90-85	Yellow Paint L-A (FD 60)
Mississippi	STR-90-86	Yellow Paint Oil Base L-A
	STR-90-87	White Paint Oil Base LF-A
Arkansas	STR-90-88	White Paint LF-CP-A
	STR-90-89	Yellow Paint L-CP-A
North Carolina	STR-90-91	White Paint LF-A No Cone (FD 60)
	STR-90-92	White Paint LF-A (FD 60) Quick Dry Premix Beads
	STR-90-93	White Paint LF-A (FD 60) Quick Dry

TABLE 1. STRIPING MATERIALS TESTED (continued) RTF90

COMPANY OR STATE	SAMPLE NUMBER*	TYPE*
North Carolina	STR-90-94	White Paint LF-A Regular Dry Premix Beads
	STR-90-95	White Paint LF-A Regular Dry
Virginia	STR-90-96	White Paint LF-ALP (FD 60)
	STR-90-97	Yellow Paint LF-ALP (FD 60)
	STR-90-98	White Paint LF-A (FD 60)
	STR-90-99	Yellow Paint LF-A (FD 60)
West Virginia	STR-90-100	Yellow Paint L-ALP (FD 60)
	STR-90-101	White Paint LF-ALP (FD 60)
	STR-90-102	Yellow Paint L-A (FD 60)
	STR-90-103	White Paint LF-A (FD 60)

* The following codes were used to describe the type of striping material:

L - Leaded
 LF - Lead Free
 A - Alkyd
 ALP - Acrylic Latex Polymer
 CP - Chlorinated Polyethylene
 FD - Fast Dry
 H - Hydrocarbon
 P - Permanent
 R - Removable
 NR - Nonremovable

TABLE 2. TEST STRIPE INSTALLATION INFORMATION (KENTUCKY)

ASPHALT DECK					CONCRETE DECK				
SAMPLE NUMBER	DATE	TIME	DATE	TIME	SAMPLE NUMBER	DATE	TIME	DATE	TIME
STR-90-1	6/5/90	11:30a	6/5/90	2:15p	STR-90-58	6/8/90	2:15p	6/8/90	2:49p
STR-90-2	6/5/90	11:30a	6/5/90	2:15p	STR-90-59	6/5/90	2:25p	6/8/90	2:57p
STR-90-3	6/5/90	1:10p	6/5/90	3:00p	STR-90-60	6/5/90	1:38p	6/8/90	1:20p
STR-90-4	6/5/90	1:30p	6/5/90	3:00p	STR-90-61	6/5/90	12:38p	6/8/90	12:23p
STR-90-5	6/5/90	2:07p	6/6/90	12:55p	STR-90-62	6/5/90	3:41p	6/8/90	10:33a
STR-90-6	6/5/90	11:25a	6/4/90	11:49a	STR-90-63	6/5/90	1:03p	6/8/90	11:48a
STR-90-7	6/5/90	12:23p	6/4/90	2:38p	STR-90-64	6/5/90	11:04a	6/8/90	1:54p
STR-90-8	6/5/90	11:53a	6/4/90	1:55p	STR-90-65	6/5/90	11:58a	6/8/90	1:24p
STR-90-9	6/5/90	3:08p	6/6/90	11:23a	STR-90-66	6/5/90	10:06a	6/4/90	3:00p
STR-90-10	6/5/90	2:38p	6/8/90	12:03p	STR-90-67	6/5/90	11:05a	6/4/90	2:14p
STR-90-11	6/5/90	10:48a	6/4/90	12:31p	STR-90-68	6/5/90	2:23p	6/4/90	10:57a
STR-90-12	6/5/90	12:56p	6/4/90	1:13p	STR-90-69	6/5/90	1:18p	6/4/90	12:05p
STR-90-13	6/5/90	10:48a	6/4/90	1:00p	STR-90-70	6/5/90	11:41p	6/4/90	12:46p
STR-90-14	6/5/90	10:53a	6/4/90	1:00p	STR-90-71	6/5/90	10:40a	6/4/90	1:54p
STR-90-15	6/5/90	10:00a	6/4/90	11:00a	STR-90-72	6/8/90	9:40a	6/8/90	11:35a
STR-90-16	6/5/90	10:00a	6/4/90	11:00a	STR-90-73	6/8/90	2:50p	6/8/90	1:35p
STR-90-17	6/5/90	11:30a	6/4/90	1:15p	STR-90-74	6/5/90	12:00p	6/8/90	2:30p
STR-90-18	6/5/90	11:30a	6/4/90	1:30p	STR-90-75	6/5/90	12:00p	6/8/90	3:00p
STR-90-19	6/5/90	10:00a	6/4/90	11:00a	STR-90-76	6/5/90	12:30p	6/8/90	3:30p
STR-90-20	6/5/90	10:30a	6/4/90	12:00p	STR-90-77	6/5/90	1:00p	6/8/90	3:30p
STR-90-21	6/5/90	10:30a	6/4/90	12:00p	STR-90-78	6/11/90	1:00p	6/12/90	10:15a
STR-90-27	6/5/90	10:45a	6/4/90	12:00p	STR-90-80	6/8/90	12:34p	6/8/90	11:45a
STR-90-28	6/5/90	10:45a	6/4/90	12:00p	STR-90-81	6/5/90	10:03a	6/4/90	2:38p
STR-90-29	6/5/90	10:45a	6/4/90	12:00p	STR-90-82	6/11/90	9:55a	6/12/90	11:38a
STR-90-30	6/5/90	10:45a	6/4/90	12:00p	STR-90-83	6/5/90	9:48a	6/4/90	2:54p
STR-90-31	6/5/90	10:45a	6/4/90	12:00p	STR-90-84	6/5/90	10:38a	6/8/90	2:15p
STR-90-32	6/5/90	10:45a	6/4/90	12:00p	STR-90-85	6/5/90	11:33a	6/8/90	1:00p
STR-90-33	6/5/90	1:49p	6/4/90	1:05p	STR-90-86	6/11/90	11:33a	6/12/90	12:18p
STR-90-34	6/8/90	11:23a	6/8/90	10:58a	STR-90-87	6/11/90	11:18a	6/12/90	9:50a
STR-90-35	6/5/90	12:53p	6/4/90	12:11p	STR-90-88	6/11/90	12:39p	6/12/90	9:18a
STR-90-36	6/8/90	11:43a	6/8/90	1:50p	STR-90-89	6/11/90	11:06p	6/12/90	1:03a
STR-90-37	6/5/90	12:04p	6/4/90	11:26a	STR-90-91	.	.	6/12/90	10:53a
STR-90-38	6/8/90	10:22a	6/8/90	3:07p	STR-90-92	.	.	6/12/90	11:06a
STR-90-39	6/5/90	10:08a	6/4/90	11:17a	STR-90-93	.	.	6/12/90	10:23a
STR-90-40	6/5/90	2:13p	6/8/90	9:48a	STR-90-94	.	.	6/12/90	11:24a
STR-90-41	6/5/90	2:84p	6/8/90	10:43a	STR-90-95	.	.	6/12/90	12:03p
STR-90-42	6/5/90	10:43a	6/4/90	11:52a	STR-90-96	6/5/90	12:10p	6/4/90	2:24p
STR-90-43	6/8/90	10:28a	6/8/90	11:41a	STR-90-97	6/8/90	9:53a	6/8/90	3:13p
STR-90-44	6/8/90	11:03a	6/8/90	12:27p	STR-90-98	6/5/90	10:58a	6/12/90	9:52a
STR-90-45	6/5/90	11:15a	6/4/90	12:28p	STR-90-99	6/8/90	12:58p	6/8/90	12:16p
STR-90-46	6/8/90	11:29a	6/8/90	1:06p	STR-90-100	6/8/90	1:15p	6/12/90	11:43a
STR-90-47	6/8/90	12:03p	6/8/90	1:39p	STR-90-101	6/5/90	1:06p	6/12/90	1:08p
STR-90-48	6/5/90	11:43a	6/4/90	1:30p	STR-90-102	6/11/90	10:03a	6/8/90	1:23p
STR-90-57	6/8/90	12:29p	6/8/90	2:21p	STR-90-103	6/5/90	11:38a	6/12/90	10:18a

TABLE 3. TEST STRIPE INSTALLATION INFORMATION (ALABAMA)

SAMPLE NUMBER	ASPHALT DECK		CONCRETE DECK		SAMPLE NUMBER	ASPHALT DECK		CONCRETE DECK	
	DATE	TIME	DATE	TIME		DATE	TIME	DATE	TIME
STR-90-1	5/3/90	10:08a	5/2/90	3:15p	STR-90-57	5/1/90	12:07p	5/2/90	2:02p
STR-90-2	5/3/90	10:08a	5/2/90	3:23p	STR-90-58	5/2/90	9:50a	5/2/90	1:02p
STR-90-3	5/1/90	1:25p	5/3/90	11:31a	STR-90-59	5/2/90	9:52a	5/2/90	1:04p
STR-90-4	5/1/90	1:00p	5/3/90	11:08a	STR-90-60	4/30/90	3:12p	5/1/90	1:07p
STR-90-5	5/2/90	1:30p	5/3/90	10:31a	STR-90-61	4/30/90	1:58p	5/1/90	2:12p
STR-90-6	5/2/90	12:19p	5/1/90	11:33a	STR-90-62	5/2/90	12:24p	5/2/90	12:32p
STR-90-7	5/2/90	10:30a	5/1/90	1:42p	STR-90-63	4/30/90	2:36p	5/1/90	1:36p
STR-90-8	5/2/90	10:02a	5/1/90	2:33p	STR-90-64	4/30/90	11:27a	5/1/90	12:33p
STR-90-9	5/2/90	2:02p	5/3/90	11:03a	STR-90-65	4/30/90	12:44p	5/1/90	11:38a
STR-90-10	5/2/90	2:28p	5/3/90	10:35a	STR-90-66	4/30/90	11:44a	5/2/90	2:17p
STR-90-11	5/2/90	11:52a	5/1/90	12:14p	STR-90-67	4/30/90	1:07p	5/2/90	1:34p
STR-90-12	5/2/90	10:56a	5/1/90	12:56p	STR-90-68	5/1/90	10:31a	5/2/90	11:06a
STR-90-13	4/30/90	12:50p	5/1/90	10:37a	STR-90-69	4/30/90	2:53p	5/2/90	12:31p
STR-90-14	4/30/90	12:40p	5/1/90	10:36a	STR-90-70	5/1/90	12:00p	5/2/90	11:30a
STR-90-15	4/30/90	12:10p	5/1/90	10:50a	STR-90-71	5/1/90	1:07p	5/2/90	10:02a
STR-90-16	4/30/90	12:03p	5/1/90	10:48a	STR-90-72	5/1/90	12:12p	5/2/90	8:51a
STR-90-17	4/30/90	2:40p	5/1/90	12:32p	STR-90-73	5/2/90	12:05p	5/2/90	1:35p
STR-90-18	4/30/90	2:55p	5/1/90	12:53p	STR-90-74	4/30/90	11:49a	5/1/90	10:03a
STR-90-19	4/30/90	12:16p	5/1/90	10:50a	STR-90-75	4/30/90	11:42a	5/1/90	9:59a
STR-90-20	4/30/90	12:50p	5/1/90	10:38a	STR-90-76	4/30/90	1:36p	5/1/90	10:51a
STR-90-21	4/30/90	12:52p	5/1/90	11:09a	STR-90-77	4/30/90	2:17p	5/1/90	11:48a
STR-90-27	4/30/90	12:58p	5/1/90	11:26a	STR-90-78	5/25/90	10:24a	5/25/90	1:22p
STR-90-28	4/30/90	1:01p	5/1/90	11:27a	STR-90-80	5/4/90	10:13a	5/7/90	1:02p
STR-90-29	4/30/90	1:03p	5/1/90	11:29a	STR-90-81	5/4/90	9:57a	5/7/90	11:31a
STR-90-30	4/30/90	1:04p	5/1/90	11:28a	STR-90-82	5/8/90	11:02a	5/7/90	12:33p
STR-90-31	4/30/90	1:14p	5/1/90	11:32a	STR-90-83	5/8/90	9:40a	5/7/90	2:13p
STR-90-32	4/30/90	1:11p	5/1/90	11:30a	STR-90-84	4/30/90	10:50a	5/1/90	12:10p
STR-90-33	4/30/90	12:41p	5/1/90	2:37p	STR-90-85	4/30/90	12:10p	5/1/90	11:09a
STR-90-34	4/30/90	10:15a	5/2/90	11:10a	STR-90-86	5/4/90	11:38a	5/7/90	11:47a
STR-90-35	4/30/90	1:57p	5/3/90	3:02p	STR-90-87	5/4/90	11:04a	5/7/90	11:17a
STR-90-36	5/1/90	2:50p	5/2/90	10:25a	STR-90-88	5/4/90	11:22a	5/7/90	11:03a
STR-90-37	4/30/90	2:34p	5/3/90	2:48p	STR-90-89	5/4/90	11:58a	5/7/90	12:02p
STR-90-38	5/1/90	3:14p	5/2/90	9:58a	STR-90-91	5/4/90	12:21p	5/7/90	11:12a
STR-90-39	4/30/90	11:36a	5/2/90	3:02p	STR-90-92	5/4/90	12:53p	5/7/90	10:34a
STR-90-40	5/1/90	12:52p	5/2/90	11:42a	STR-90-93	5/4/90	10:34a	5/7/90	10:12a
STR-90-41	5/1/90	10:06a	5/2/90	12:03p	STR-90-94	5/4/90	1:15p	5/7/90	8:45a
STR-90-42	4/30/90	12:59p	5/3/90	10:26a	STR-90-95	5/4/90	11:48a	5/7/90	10:24a
STR-90-43	5/1/90	10:37a	5/2/90	12:21p	STR-90-96	5/8/90	10:20a	5/3/90	12:05p
STR-90-44	5/1/90	11:38a	5/2/90	12:40p	STR-90-97	5/8/90	10:47a	5/7/90	1:09p
STR-90-45	4/30/90	1:38p	5/3/90	10:46a	STR-90-98	5/4/90	1:25p	5/7/90	9:54a
STR-90-46	5/1/90	2:14p	5/2/90	1:10p	STR-90-99	5/4/90	10:38a	5/7/90	1:28p
STR-90-47	5/1/90	11:25a	5/2/90	1:42p	STR-90-102	5/4/90	1:01p	5/7/90	10:40a
STR-90-48	4/30/90	2:24p	5/3/90	11:11a	STR-90-103	5/4/90	11:12a	5/7/90	1:53p

TABLE 4. TRAFFIC PAINT THICKNESS AND BEAD APPLICATION RATE
(KENTUCKY)

SAMPLE NUMBER	THICKNESS (MILS)		BEAD APPLICATION (LBS/GAL)	
	ASPHALT	CONCRETE	ASPHALT	CONCRETE
STR-90-5	15.0	15.8	6.0	5.9
STR-90-6	15.1	15.3	6.0	6.3
STR-90-7	14.1	14.3	5.6	5.5
STR-90-8	15.0	14.3	6.5	5.9
STR-90-9	14.4	14.2	6.3	6.4
STR-90-10	15.8	14.3	6.4	6.0
STR-90-11	14.5	15.6	5.6	6.5
STR-90-12	15.0	14.6	6.1	6.1
STR-90-33	15.3	15.8	5.9	5.6
STR-90-34	14.4	14.9	6.1	6.5
STR-90-35	15.3	14.3	5.8	6.4
STR-90-36	15.0	15.3	6.0	5.8
STR-90-37	14.0	15.4	6.5	6.1
STR-90-38	14.1	14.7	6.5	5.5
STR-90-39	14.9	14.2	6.5	5.7
STR-90-40	14.1	15.7	6.5	6.2
STR-90-41	15.2	14.6	6.0	6.1
STR-90-42	14.1	15.4	5.5	6.0
STR-90-43	15.5	15.9	6.0	6.0
STR-90-44	15.0	14.9	6.2	6.3
STR-90-45	15.1	15.2	6.1	6.1
STR-90-46	14.0	14.4	5.5	6.2
STR-90-47	14.4	14.2	6.4	6.1
STR-90-48	14.6	15.4	5.9	6.4
STR-90-57	14.4	14.9	5.8	5.7
STR-90-60	14.8	14.6	6.5	5.6
STR-90-61	14.6	15.6	5.6	6.4
STR-90-63	14.0	15.0	5.6	5.7
STR-90-64	14.7	14.9	5.6	6.2
STR-90-65	14.1	14.8	6.5	5.9
STR-90-66	14.5	14.2	6.5	5.9
STR-90-67	15.2	14.8	6.1	6.5
STR-90-68	15.2	15.4	6.1	6.1
STR-90-69	15.4	14.9	5.6	6.2
STR-90-70	16.0	14.2	5.9	5.9
STR-90-71	14.1	15.6	5.8	6.4
STR-90-80	15.4	15.9	5.6	6.1
STR-90-81	14.5	14.7	6.1	5.5
STR-90-82	14.4	14.7	5.5	6.0
STR-90-83	15.4	15.6	5.5	5.5

TABLE 4. TRAFFIC PAINT THICKNESS AND BEAD APPLICATION RATE
(KENTUCKY)(continued)

SAMPLE NUMBER	THICKNESS (MILS)		BEAD APPLICATION (LBS/GAL)	
	ASPHALT	CONCRETE	ASPHALT	CONCRETE
STR-90-84	14.3	14.0	6.4	6.2
STR-90-85	15.9	15.2	6.1	6.5
STR-90-86	16.0	15.0	5.7	6.4
STR-90-87	15.4	15.4	6.0	5.9
STR-90-88	14.4	15.2	6.2	6.1
STR-90-89	15.7	14.9	5.7	6.0
STR-90-91	*	15.2	*	6.5
STR-90-92	*	15.8	*	5.5
STR-90-93	*	14.3	*	6.3
STR-90-94	*	15.1	*	6.4
STR-90-95	*	14.1	*	6.5
STR-90-96	15.3	14.9	5.8	5.5
STR-90-97	14.4	14.0	6.0	5.7
STR-90-98	14.7	14.6	6.4	6.0
STR-90-99	15.5	15.1	5.7	6.3
STR-90-100	15.1	15.6	6.2	*
STR-90-101	14.0	14.2	5.5	5.8
STR-90-102	16.0	15.5	5.9	5.5
STR-90-103	14.3	15.5	5.7	5.6

* Not installed

TABLE 5. TRAFFIC PAINT THICKNESS AND BEAD APPLICATION RATE
(ALABAMA)

SAMPLE NUMBER	THICKNESS (MILS)		BEAD APPLICATION (LBS/GAL)	
	ASPHALT	CONCRETE	ASPHALT	CONCRETE
STR-90-5	15.1	15.5	5.8	6.0
STR-90-6	15.0	15.8	6.0	6.5
STR-90-7	14.9	15.2	5.6	6.0
STR-90-8	15.0	15.0	5.9	5.5
STR-90-9	14.8	14.7	5.5	6.0
STR-90-10	14.0	15.4	6.5	6.3
STR-90-11	15.0	15.0	6.2	6.4
STR-90-12	15.5	14.1	5.9	6.0
STR-90-33	14.7	16.0	6.0	5.8
STR-90-34	14.0	15.0	5.5	5.8
STR-90-35	15.0	15.1	6.3	5.8
STR-90-36	15.0	15.0	5.8	6.0
STR-90-37	15.0	15.7	6.0	5.5
STR-90-38	15.0	15.5	6.3	6.0
STR-90-39	15.0	14.4	6.0	5.8
STR-90-40	15.0	15.5	5.8	5.8
STR-90-41	15.0	14.2	5.5	5.8
STR-90-42	15.0	15.0	6.5	5.8
STR-90-43	14.5	14.0	5.5	5.8
STR-90-44	15.5	14.2	6.3	6.0
STR-90-45	15.5	15.7	5.8	6.5
STR-90-46	14.0	14.2	5.8	6.5
STR-90-47	16.0	15.5	6.5	5.8
STR-90-48	14.5	14.5	6.5	5.8
STR-90-57	15.0	14.4	5.8	6.0
STR-90-60	15.3	16.0	5.5	5.9
STR-90-61	14.5	14.8	5.9	5.7
STR-90-63	15.3	15.4	5.8	5.8
STR-90-64	14.8	15.9	6.1	6.0
STR-90-65	15.0	15.7	6.0	6.0
STR-90-66	15.6	16.0	6.0	6.3
STR-90-67	15.2	15.5	6.3	6.3
STR-90-68	15.3	14.2	6.0	6.0
STR-90-69	15.8	15.5	6.4	5.8
STR-90-70	16.0	16.0	17.3	19.3
STR-90-71	16.0	15.5	16.5	16.5
STR-90-80	14.6	15.2	6.0	5.8
STR-90-81	15.1	14.0	6.0	6.0
STR-90-82	14.3	15.5	6.0	6.0

TABLE 5. TRAFFIC PAINT THICKNESS AND BEAD APPLICATION RATE
(ALABAMA)(continued)

SAMPLE NUMBER	THICKNESS (MILS)		BEAD APPLICATION (LBS/GAL)	
	ASPHALT	CONCRETE	ASPHALT	CONCRETE
STR-90-83	15.0	14.9	6.3	6.5
STR-90-84	14.0	15.0	6.1	5.6
STR-90-85	15.0	14.9	5.5	6.3
STR-90-86	14.4	15.5	6.0	6.0
STR-90-87	15.1	16.0	6.0	6.5
STR-90-88	15.8	15.6	5.5	6.0
STR-90-89	15.0	15.5	6.5	6.3
STR-90-91	15.5	15.2	5.5	6.3
STR-90-92	14.9	14.5	6.0	5.5
STR-90-93	15.7	15.9	6.0	6.5
STR-90-94	14.0	14.7	6.3	6.0
STR-90-95	16.0	15.4	6.0	5.8
STR-90-96	15.5	15.0	6.5	6.5
STR-90-97	14.6	15.7	6.5	5.5
STR-90-98	14.5	14.5	5.7	6.5
STR-90-99	14.8	15.7	5.8	6.0
STR-90-102	15.1	14.0	5.7	6.0
STR-90-103	14.7	14.3	6.0	6.3

TABLE 6. AVERAGE THERMOPLASTIC THICKNESS (MILS)

SAMPLE NUMBER	KENTUCKY		ALABAMA	
	CONCRETE	ASPHALT	CONCRETE	ASPHALT
STR-90-62	90	86	106	75
STR-90-72	93	98	104	90
STR-90-73	99	90	96	91
STR-90-78	81	91	80	78

TABLE 7. RESULTS OF NO-TRACK TESTS

SAMPLE NUMBER	RESULTS				THICKNESS				RELATIVE HUMIDITY				AIR TEMPERATURE			
	KY		AL		KY		AL		KY		AL		KY		AL	
	PCC	ASPH.	PCC	ASPH.	PCC	ASPH.	PCC	ASPH.	PCC	ASPH.	PCC	ASPH.	PCC	ASPH.	PCC	ASPH.
STR-90-5	NT	NT	NT	NT	15.8	15.0	15.5	15.1	55	43	52	47	84	74	88	83
STR-90-6	NT	NT	NT	NT	15.3	15.1	15.8	15.0	65	49	57	54	58	89	86	89
STR-90-7	NT	NT	NT	NT	14.3	14.1	15.2	14.9	63	63	50	65	60	66	82	82
STR-90-8	NT	NT	NT	NT	14.3	15.0	15.0	15.0	62	58	54	68	59	67	90	80
STR-90-9	T	NT	NT	NT	14.2	14.4	14.7	14.8	58	45	47	47	63	72	82	82
STR-90-10	NT	NT	NT	NT	14.3	15.8	15.4	14.0	54	44	52	44	82	73	89	84
STR-90-11	NT	NT	NT	NT	15.6	14.5	15.0	15.0	62	51	51	57	58	67	88	88
STR-90-12	NT	NT	NT	NT	14.8	15.0	14.1	15.5	58	65	52	62	61	66	90	84
STR-90-33	NT	NT	NT	NT	15.8	15.3	16.0	14.7	58	49	41	47	61	72	95	91
STR-90-34	NT	NT	NT	NT	14.9	14.4	15.0	14.0	60	61	61	84	83	88	84	81
STR-90-35	NT	NT	NT	NT	14.3	15.3	15.1	15.0	68	65	38	42	58	88	95	94
STR-90-36	T	NT	NT	NT	15.3	15.0	15.0	15.0	50	62	65	57	68	89	82	89
STR-90-37	NT	NT	T	NT	15.4	14.0	15.7	15.0	63	62	40	41	58	66	95	95
STR-90-38	NT	NT	NT	NT	14.7	14.1	15.5	15.0	47	68	68	59	66	86	80	88
STR-90-39	NT	NT	NT	NT	14.2	14.9	14.4	15.0	62	62	41	55	58	59	86	88
STR-90-40	NT	NT	NT	NT	15.7	14.1	15.5	15.0	68	42	59	52	77	74	85	90
STR-90-41	NT	NT	NT	NT	14.6	15.2	14.2	15.0	62	45	57	64	61	73	88	80
STR-90-42	NT	NT	NT	NT	15.4	14.1	15.0	15.0	65	53	52	44	58	65	89	93
STR-90-43	NT	NT	NT	NT	15.9	15.5	14.0	14.5	57	65	54	63	63	87	89	83
STR-90-44	NT	NT	NT	NT	14.9	15.0	14.2	15.5	55	60	51	51	63	90	91	92
STR-90-45	NT	NT	NT	NT	15.2	15.1	15.7	15.5	63	48	50	43	59	70	91	84
STR-90-46	NT	NT	NT	NT	14.4	14.0	14.2	14.0	55	61	48	52	64	89	84	92
STR-90-47	NT	NT	NT	NT	14.2	14.4	15.5	16.0	52	63	47	61	65	89	93	86
STR-90-48	NT	NT	NT	NT	15.4	14.8	14.5	14.5	59	55	46	42	60	68	92	85
STR-90-57	NT	T	NT	NT	14.9	14.4	14.4	15.0	46	59	47	51	68	89	92	88
STR-90-60	T	NT	NT	NT	14.6	14.8	16.0	15.3	58	54	52	41	63	70	90	95
STR-90-61	NT	NT	NT	NT	15.6	14.6	14.8	14.5	54	64	51	42	63	86	93	84
STR-90-63	T	NT	NT	NT	15.0	14.0	15.4	15.3	55	68	51	41	62	86	92	95
STR-90-64	T	NT	NT	NT	14.9	14.7	15.9	14.8	49	45	52	56	68	70	89	85
STR-90-65	NT	NT	NT	NT	14.8	14.1	15.7	15.0	52	59	55	46	65	67	87	92
STR-90-66	NT	NT	NT	T	14.2	14.5	16.0	15.6	63	60	45	54	61	59	93	86
STR-90-67	NT	NT	NT	T	14.8	15.2	15.5	15.2	62	44	47	44	60	70	93	93
STR-90-68	NT	NT	NT	NT	15.4	15.2	14.2	15.3	61	43	62	63	59	73	84	82
STR-90-69	T	NT	NT	NT	14.9	15.4	15.5	15.6	68	61	53	41	58	68	89	95
STR-90-70	**	**	**	**	14.2	16.0	16.0	16.0	61	56	60	58	59	67	85	87
STR-90-71	**	**	**	**	15.6	14.1	15.5	16.0	61	60	68	52	59	68	80	90
STR-90-80	T	T	NT	NT	15.9	15.4	15.2	14.8	55	59	30	77	62	90	86	75
STR-90-81	NT	NT	NT	NT	14.7	14.5	14.0	15.1	63	62	40	78	60	59	77	75
STR-90-82	NT	NT	NT	NT	14.7	14.4	15.5	14.3	48	52	33	56	62	79	82	76
STR-90-83	NT	NT	NT	NT	15.6	15.4	14.9	15.0	63	63	28	64	61	59	86	75
STR-90-84	NT	NT	NT	T	14.0	14.3	15.0	14.0	48	53	51	63	68	65	88	81
STR-90-85	NT	NT	NT	T	15.2	15.9	14.9	15.0	55	53	62	50	64	68	84	89
STR-90-86	**	**	**	**	15.0	16.0	15.5	14.4	48	49	37	71	63	81	78	79
STR-90-87	**	**	**	T	15.4	15.4	16	15.1	59	46	42	75	71	80	77	77
STR-90-88	**	**	**	T	15.2	14.4	15.6	15.8	65	43	44	73	70	83	76	78
STR-90-89	**	**	**	**	14.9	15.7	15.5	15.0	41	43	38	68	64	80	78	80
STR-90-91	NT	*	NT	NT	15.2	*	15.2	15.5	52	*	43	67	78	*	78	80
STR-90-92	**	*	**	**	15.8	*	14.5	14.9	52	*	48	65	78	*	78	81
STR-90-93	**	*	T	T	14.3	*	15.8	15.7	55	*	50	76	74	*	76	76
STR-90-94	**	*	**	**	15.1	*	14.7	14.0	51	*	47	62	80	*	74	79
STR-90-95	**	*	**	**	14.1	*	15.4	16.0	48	*	49	70	63	*	76	79
STR-90-96	NT	T	NT	NT	14.9	15.3	15.0	15.5	62	62	42	60	60	66	84	76
STR-90-97	NT	T	NT	NT	14.0	14.4	15.7	14.6	47	68	30	57	66	85	86	78
STR-90-98	NT	NT	NT	NT	14.6	14.7	14.5	14.5	60	47	49	64	71	68	76	82
STR-90-99	NT	NT	NT	NT	15.1	15.5	15.7	14.8	54	55	29	76	62	90	86	76
STR-90-100	NT	NT	*	*	15.6	15.1	*	*	48	55	**	**	63	90	**	**
STR-90-101	NT	NT	*	*	14.2	14.0	*	*	41	68	**	**	64	66	**	**
STR-90-102	NT	NT	NT	NT	15.5	16.0	14.0	15.1	53	50	46	65	65	80	76	81
STR-90-103	NT	NT	NT	NT	15.5	14.3	14.3	14.7	55	53	28	74	73	68	86	77

NT - paint did not track.

T - paint tracked.

* Material not installed.

** No-track test not conducted.

TABLE 8. WEATHER INFORMATION FOR TEST STRIPE INSTALLATION
(KENTUCKY)

DATE	TIME	AIR TEMP.	PAVEMENT TEMPERATURE		RELATIVE HUMIDITY (%)
			ASPHALT	PCC	
6/4/90	10:00a	63		65	58
6/4/90	11:00a	58		67	61
6/4/90	Noon	58		64	68
6/4/90	1:00p	61		64	58
6/4/90	2:00p	59		65	62
6/4/90	3:00p	61		70	63
6/5/90	9:00a	59	60		67
6/5/90	10:00a	59	67		62
6/5/90	11:00a	70	60		44
6/5/90	Noon	66	68		62
6/5/90	1:00p	66	95		66
6/5/90	2:00p	74	98		43
6/5/90	3:00p	72	98		45
6/6/90	9:00a	78		71	64
6/6/90	10:00a	77		77	69
6/6/90	11:00a	83		85	60
6/6/90	Noon	82		90	54
6/6/90	1:00p	84		88	55
6/6/90	2:00p	88		89	49
6/6/90	3:00p	86		88	47
6/6/90	9:00a	84	82		65
6/6/90	10:00a	85	90		68
6/6/90	11:00a	89	98		60
6/6/90	Noon	89	98		63
6/6/90	1:00p	90	110		55
6/11/90	9:00a	73	75		60
6/11/90	10:00a	80	85		50
6/11/90	11:00a	80	90		43
6/11/90	Noon	82	100		55
6/11/90	1:00p	84	100		37
6/12/90	9:00a	70		70	68
6/12/90	10:00a	71		79	57
6/12/90	11:00a	78		88	52
6/12/90	Noon	83		95	48
6/12/90	1:00p	84		100	41

TABLE 10. WEATHER INFORMATION OVER EVALUATION PERIOD

MONTH	AVERAGE TEMPERATURE (FAHRENHEIT)		TOTAL RAINFALL (INCHES)		TOTAL SNOWFALL (INCHES)	
	KY	AL	KY	AL	KY	AL
May 1990	62	71	5.4	4.3	0.0	0.0
June 1990	72	80	4.6	0.9	0.0	0.0
July 1990	75	82	6.5	5.6	0.0	0.0
August 1990	74	85	4.4	0.9	0.0	0.0
September 1990	69	79	2.1	1.1	0.0	0.0
October 1990	56	67	4.5	2.1	0.0	0.0
November 1990	50	58	2.7	1.5	0.0	0.0
December 1990	40	53	9.2	3.3	0.8	0.0
January 1991	34	48	2.6	8.3	0.1	0.0
February 1991	39	54	3.6	2.6	3.2	0.0
March 1991	47	59	5.7	8.4	1.7	0.0
April 1991	58	68	2.7	6.6	0.0	0.0
May 1991	71	78	4.0	11.6	0.0	0.0

TABLE 9. WEATHER INFORMATION FOR TEST STRIPE INSTALLATION
(ALABAMA)

DATE	TIME	AIR TEMP.	PAVEMENT TEMPERATURE		RELATIVE HUMIDITY (%)
			ASPHALT	PCC	
4/30/90	10:00a	78	101		87
4/30/90	11:00a	82	18		82
4/30/90	Noon	88	128		51
4/30/90	1:00p	93	134		44
4/30/90	2:00p	94	136		42
4/30/90	3:00p	95	126		41
5/1/90	9:00a	77	83		70
5/1/90	10:00a	80	98		64
5/1/90	11:00a	84	113		62
5/1/90	Noon	88	130	118	51
5/1/90	1:00p	90	136	138	52
5/1/90	2:00p	93	132	130	50
5/1/90	3:00p	88	126	118	58
5/2/90	9:00a	77	105	60	74
5/2/90	10:00a	80	120	104	68
5/2/90	11:00a	84	125	116	62
5/2/90	Noon	88	135	118	57
5/2/90	1:00p	94	125	124	48
5/2/90	2:00p	92	125	124	47
5/2/90	3:00p	98		116	41
5/3/90	9:00a	82		102	68
5/3/90	10:00a	86		102	57
5/3/90	11:00a	92		118	47
5/3/90	Noon	94		130	42
5/3/90	1:00p	95		132	41
5/3/90	2:00p	95		134	46
5/3/90	3:00p	95		116	38
5/4/90	9:00a	77	80		78
5/4/90	10:00a	75	82		78
5/4/90	11:00a	77	86		75
5/4/90	Noon	80	89		68
5/4/90	1:00p	81	86		65
5/7/90	9:30a	72		84	42
5/7/90	11:00a	76		88	51
5/7/90	10:00a	76		104	44
5/7/90	Noon	78		108	36
5/7/90	1:00p	88		110	30
5/7/90	2:00p	86		112	28
5/8/90	9:00a	72	78		68
5/8/90	10:00a	76	90		62
5/8/90	11:00a	78	100		56
5/8/90	3:00p	80	89		54
5/25/90	9:00a	78	94		74
5/25/90	10:00a	78	108		74
5/25/90	11:00a	84	110		62
5/25/90	Noon	88		102	66
5/25/90	1:00p	87		106	67
5/25/90	2:00p	87		110	64

Table 11. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1991	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6**	206	197	155	154	133	103	79	114	97	66	98	32
	201	206	182	183	181	184	162	169	170	126	126	100
33	228	165	131	118	117	86	83	122	127	100	93	71
	231	171	145	138	134	142	116	140	139	121	122	104
35	177	131	110	97	94	69	68	106	110	86	72	63
	184	147	125	119	116	123	105	131	131	111	111	99
37	221	172	130	123	117	84	81	116	105	86	71	55
	212	192	162	152	154	151	130	148	146	115	115	108
64	203	169	136	132	124	91	84	115	113	77	62	53
	171	162	147	149	140	143	116	124	131	103	97	77
81	198	193	147	122	124	83	82	95	104	70	62	51
	190	210	159	159	152	168	149	146	134	120	84	70
84	275	203	145	124	115	84	77	105	103	73	67	49
	243	186	142	145	118	127	107	103	121	84	87	84
87	306	304	280	250	240	202	175	177	165	116	112	97
	337	269	288	269	261	246	249	216	213	160	142	137
88	331	335	266	209	165	127	107	123	121	87	82	76
	316	340	293	251	204	186	165	168	145	123	104	97
98	169	168	116	113	109	81	77	110	105	76	59	49
	168	158	131	136	129	133	120	133	142	105	100	86
103	183	145	114	100	108	78	74	103	97	68	56	43
	174	147	127	128	132	126	111	128	128	106	109	88
Paint-Solvent, White (120 sec)												
66	415	301	195	140	126	99	84	88	96	61	53	38
	424	342	248	191	180	177	161	140	137	96	88	74
Paint-Solvent, White (3 min or more)												
11	249	263	187	147	139	114	82	77	77	56	44	37
	230	236	205	181	181	174	144	156	131	115	98	71
Paint-Solvent, Yellow (60 sec)												
7	146	147	111	110	102	67	69	87	77	60	45	37
	159	156	137	133	129	136	113	129	115	102	94	68
8	175	163	132	124	113	74	67	100	89	59	45	32
	175	170	160	147	151	148	128	145	124	102	100	74

TABLE 11.

Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
34	228	189	154	139	131	90	84	120	126	87	81	72
	217	193	182	160	168	164	144	167	149	134	131	123
36	227	174	139	117	114	92	82	113	125	84	79	74
	219	176	157	144	137	135	124	142	143	114	114	102
38	216	158	125	118	110	80	83	108	118	81	81	72
	206	164	141	131	128	132	119	128	130	111	113	104
65	188	160	133	127	117	89	73	107	106	74	56	42
	176	174	169	160	155	150	129	140	130	110	107	86
80	221	145	134	129	122	96	89	116	131	95	90	75
	215	167	142	143	134	137	125	150	145	118	115	120
85	187	165	123	125	118	88	78	116	112	81	66	48
	170	166	145	137	137	143	119	133	133	113	113	89
86	142	107	96	88	87	108	100	122	129	98	98	85
	166	105	92	92	84	96	99	108	127	103	100	97
89	150	116	101	93	89	94	85	104	102	76	70	63
	150	122	105	102	90	102	97	115	134	106	99	87
99	214	156	137	123	117	98	84	112	107	72	64	57
	205	160	147	143	143	144	128	149	148	120	110	115
102	236	171	140	128	109	98	84	94	87	56	53	50
	224	188	175	146	146	150	125	123	112	91	85	81
Paint-Solvent, Yellow (120 sec)												
67	315	237	196	168	156	128	115	137	135	82	66	42
	288	224	199	201	189	190	157	170	149	122	98	73
Paint-Solvent, Yellow (3 min or more)												
12	177	154	109	104	98	77	73	94	82	59	45	33
	168	159	122	120	117	121	107	121	110	94	86	66
Paint-Water, White (60 sec)												
5	116	112	94	85	88	96	98	129	142	107	99	86
	107	115	104	99	98	101	99	138	129	117	112	100
39	320	344	295	280	268	234	224	265	270	210	197	147
	279	287	271	282	242	278	288	263	297	251	207	198
42	286	334	271	242	257	240	216	262	254	190	186	145
	296	323	285	289	282	275	263	255	293	227	241	213

TABLE 11. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, White (60 sec)(continued)												
45	266	252	205	197	198	191	173	228	213	168	155	121
	245	254	205	222	222	226	215	226	222	204	189	175
48	293	263	210	174	183	153	137	167	157	114	109	70
	289	273	242	218	233	239	225	237	222	212	200	174
61	199	188	160	156	151	164	159	180	185	155	144	127
	177	185	179	178	175	174	168	188	193	171	160	146
83	288	292	254	261	252	225	214	262	246	213	165	152
	264	278	260	271	260	280	293	262	254	234	230	206
96	196	187	157	150	149	160	141	173	183	143	133	109
	190	197	178	183	183	185	166	185	191	164	166	142
101	314	293	264	252	247	209	207	238	227	182	165	137
	307	296	294	294	289	294	282	286	278	247	242	221
Paint-Water, White (120 sec)												
68	407	345	303	273	276	248	259	276	268	210	197	194
	394	357	332	325	328	336	310	318	295	291	244	252
Paint-Water, Yellow (60 sec)												
9	95	75	52	55	54	51	45	57	61	46	45	42
	86	79	66	65	63	65	55	61	66	54	53	48
10	88	66	50	52	47	48	45	56	63	47	38	37
	84	79	62	69	61	68	56	63	63	57	53	47
40	276	278	239	215	211	186	177	203	196	157	145	140
	270	293	263	239	246	243	227	238	232	199	211	174
41	252	253	217	202	193	161	156	178	172	143	145	127
	238	257	228	213	223	221	208	220	217	193	177	171
43	198	210	183	178	175	164	160	180	174	138	134	128
	187	209	196	188	181	191	181	192	191	165	166	163
44	280	292	253	236	243	226	227	220	217	186	173	173
	271	293	282	278	272	273	257	260	255	233	232	242
46	217	239	209	197	186	168	170	184	180	154	146	135
	222	246	238	224	215	218	212	233	217	198	199	193
47	246	234	207	185	179	166	156	165	160	124	118	111
	244	248	234	219	222	219	212	227	207	186	187	163

TABLE 11. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
57	154	132	121	113	113	117	110	122	131	100	86	91
	153	149	146	141	137	138	135	144	140	126	123	119
60	141	128	109	109	103	114	115	134	140	113	113	91
	136	135	122	122	120	122	115	130	133	121	115	108
63	159	153	134	119	121	122	118	147	154	119	117	88
	143	153	141	138	136	140	134	154	150	134	126	118
82	303	302	269	247	234	242	226	225	207	163	169	150
	298	329	314	292	292	295	285	283	266	229	222	241
97	129	101	88	88	86	82	83	98	107	81	81	75
	121	101	89	91	85	90	85	97	100	90	88	83
100	245	252	234	219	210	214	205	206	203	160	427	141
	246	261	249	237	244	242	233	248	225	209	207	214
Paint-Water, Yellow (120 sec)												
69	326	271	230	221	212	182	181	199	195	150	147	111
	328	296	284	265	265	255	249	248	231	196	188	179
Paint-Polyester, White												
70	219	214	207	190	188	147	137	194	189	171	153	131
	241	229	221	225	224	228	217	243	238	214	212	203
Paint-Polyester, Yellow												
71	151	155	128	127	121	106	94	137	143	115	110	87
	151	143	134	130	129	153	137	135	152	140	124	117
Thermoplastic-White, Alkyd												
72	260	347	330	321	283	211	169	193	227	186	254	267
	260	383	345	287	345	320	334	259	185	164	168	209
Thermoplastic-White, Cold Curing												
78	281	348	327	309	293	307	290	247	296	170	169	135
	300	335	347	294	329	320	386	322	266	202	186	171
Thermoplastic-Yellow, Alkyd												
73	253	191	167	155	142	123	115	116	133	101	130	136
	249	186	183	172	198	186	174	167	120	114	124	135
Thermoplastic-Yellow, Hydrocarbon												
62	268	242	226	209	198	159	109	89	99	86	102	88
	249	249	218	213	226	227	221	204	97	177	177	83

TABLE 11. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, White												
1	389	400	385	330	340	264	225	135	135	107	114	102
	361	343	356	331	353	320	305	234	164	135	139	123
16	494	444	427	383	364	306	273	236	215	161	168	163
	464	452	446	407	423	385	344	316	259	240	219	171
19	425	454	352	232	142	85	82	76	75	67	77	70
	411	432	373	246	168	98	83	95	84	72	78	111
20	481	498	410	240	151	88	83	82	70	62	77	64
	455	405	448	275	187	143	87	85	103	69	85	85
27	1092	1009	937	870	867	813	790	743	639	539	555	534
	1049	1052	1044	1001	988	927	902	880	704	747	702	678
30	556	470	436	373	350	283	265	300	294	225	235	216
	559	454	458	373	358	319	303	292	296	256	238	206
32	714	769	744	723	702	571	566	531	535	427	469	426
	670	673	747	660	713	649	642	619	578	520	565	443
58	429	417	422	407	381	343	337	231	183	101	112	105
	449	463	472	361	347	334	308	263	115	116	95	110
75	325	351	344	336	309	233	201	139	153	94	118	78
	297	300	353	281	292	260	257	192	134	140	120	130
Temporary Tape, White												
14	723	634	560	524	520	409	391	344	328	251	332	235
	703	673	636	550	577	543	509	475	375	363	351	299
Permanent Tape, Yellow												
2	311	216	184	192	162	128	126	70	70	53	52	45
	289	241	247	209	232	212	216	117	88	69	67	54
15	429	406	382	372	357	307	300	245	235	168	193	216
	407	382	371	378	365	347	334	279	246	235	230	180
21	366	344	273	222	172	138	103	79	66	56	66	52
	346	276	263	233	188	147	103	94	78	73	70	66
28	892	841	763	726	667	546	529	516	454	376	386	345
	892	836	796	747	739	701	667	659	531	582	550	399
29	446	408	371	366	358	279	284	292	266	210	230	204
	454	407	408	358	368	327	319	316	286	253	247	191

TABLE 11. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, Yellow(continued)												
31	581	563	544	525	518	424	430	439	420	343	396	334
	579	545	552	527	547	527	533	499	470	431	438	382
59	299	309	249	183	150	108	83	62	79	58	50	43
	265	274	225	200	175	110	81	75	64	47	52	95
74	376	363	345	318	294	232	209	159	141	87	89	70
	364	339	343	301	324	280	286	230	199	180	147	130
Temporary Tape, Yellow												
13	516	472	417	369	366	291	270	260	397	199	196	128
	523	461	433	383	397	367	338	316	247	250	248	204

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurement.

TABLE 12.

Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6**	275	220	210	208	188	167	146	109	120	104	82	72
	303	249	251	252	246	211	218	152	187	161	149	152
33	257	212	157	202	185	170	173	115	98	91	78	71
	252	220	172	227	212	211	216	158	127	185	196	169
35	263	214	193	200	186	168	154	110	132	106	107	85
	264	230	225	229	226	202	192	153	189	180	164	146
37	260	218	194	208	191	179	165	120	138	117	120	107
	275	233	219	236	233	212	208	150	185	182	184	168
64	217	186	167	183	175	155	157	108	174	92	93	87
	226	214	215	224	215	193	193	123	210	147	156	143
81	258	187	161	176	160	152	137	89	101	97	75	67
	286	219	213	211	202	178	174	130	147	157	139	125
84	253	204	170	186	189	155	158	104	112	92	94	96
	279	227	226	227	193	199	197	129	117	155	156	157
87	254	230	232	236	230	208	209	162	164	142	127	102
	259	238	260	251	255	235	244	178	215	237	194	193
88	272	227	205	219	200	184	182	141	155	140	131	120
	287	240	244	248	243	227	235	180	208	229	193	183
91	297	237	199	204	179	164	159	126	132	116	118	102
	301	214	223	232	211	200	199	147	163	174	156	157
92	387	303	275	260	213	163	146	108	98	104	98	96
	395	322	298	302	266	211	187	111	135	139	120	128
93	286	222	173	176	141	126	109	80	88	75	74	70
	322	265	221	223	205	161	150	97	107	131	115	114
98	189	155	133	148	145	89	111	80	88	80	74	86
	211	173	161	173	150	143	135	81	99	103	95	100
103	204	169	155	174	162	144	145	107	128	145	107	89
	211	186	177	190	182	166	163	93	151	125	145	147
Paint-Solvent, White (120 sec)												
66	262	241	201	239	234	217	211	165	182	159	165	133
	273	256	256	260	267	253	239	205	191	232	236	214

TABLE 12.

Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (3 min or more)												
11	288	210	183	172	147	120	117	82	100	85	61	57
	306	243	231	219	203	177	172	115	136	123	125	112
94	303	273	258	271	250	240	231	187	214	194	182	169
	315	286	271	282	276	219	278	192	262	264	233	250
95	265	221	201	216	203	196	182	139	144	133	137	126
	283	236	213	225	224	207	206	146	180	207	175	170
Paint-Solvent, Yellow (60 sec)												
7	237	180	173	190	173	161	146	103	125	115	96	80
	232	199	193	211	197	183	177	128	166	142	157	126
8	217	171	172	179	156	139	140	104	116	112	91	75
	220	184	182	196	187	167	166	116	143	125	133	128
34	252	189	172	183	168	149	142	103	116	102	88	83
	267	211	198	183	177	170	172	130	139	145	150	128
36	155	126	122	141	126	117	113	79	95	94	79	67
	182	155	143	162	156	139	133	100	107	106	114	96
38	147	117	113	134	118	113	110	80	99	96	79	67
	155	136	132	155	146	133	129	90	108	101	104	94
65	215	181	136	176	163	151	150	98	83	81	75	69
	222	201	164	209	196	182	178	131	98	156	154	143
80	209	182	166	182	169	151	145	98	102	97	82	77
	220	185	165	186	178	160	157	105	126	149	133	128
85	205	174	155	172	158	145	137	94	100	76	72	66
	206	191	196	199	185	180	170	121	112	145	145	134
86	215	179	159	180	177	166	163	125	133	129	120	101
	215	193	184	198	193	179	185	148	174	181	170	161
89	248	202	183	204	187	173	163	113	127	119	118	96
	280	229	206	229	211	208	197	138	179	182	162	156
99	183	163	148	160	149	127	130	96	106	89	91	87
	189	170	162	170	165	146	143	89	110	136	112	119
102	244	183	165	180	147	126	127	95	106	86	87	85
	257	217	211	204	187	163	163	88	122	129	116	123

TABLE 12. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (120 sec)												
67	214	196	155	197	192	211	172	130	101	127	113	108
	228	202	176	212	212	226	193	169	116	193	170	178
Paint-Solvent, Yellow (3 min or more)												
12	234	193	150	150	141	120	115	77	85	81	58	52
	236	195	180	190	179	156	151	103	125	117	119	96
Paint-Water, White (60 sec)												
5	259	175	181	177	168	160	166	140	155	146	138	117
	217	188	189	204	204	182	194	164	183	186	179	174
39	314	286	282	278	268	259	244	174	232	210	205	170
	344	312	300	304	303	280	286	243	233	276	273	258
42	423	375	275	330	316	323	276	242	269	216	164	164
	470	403	328	375	372	385	366	318	382	361	329	307
45	354	315	251	287	280	290	248	199	227	206	187	171
	327	308	257	293	290	292	277	245	300	283	254	255
48	341	293	268	269	257	245	218	177	206	187	168	171
	353	281	248	259	255	240	246	204	258	259	238	230
61	260	237	218	219	226	220	210	157	184	179	179	157
	240	220	210	221	227	216	224	191	226	229	216	222
83	356	280	256	264	260	195	232	164	215	196	178	186
	356	333	343	335	331	291	311	249	315	312	285	252
96	333	263	253	258	251	190	223	162	218	200	187	190
	314	293	295	290	296	273	289	236	284	280	257	251
Paint-Water, White (120 sec)												
68	347	286	261	265	266	249	234	197	219	214	194	160
	328	296	288	260	278	278	291	272	304	302	282	279
Paint-Water, Yellow (60 sec)												
9	163	115	111	126	116	109	109	83	99	95	92	76
	146	119	121	142	137	124	124	103	115	114	115	111
10	113	87	83	99	94	85	87	56	71	69	69	65
	114	92	91	113	110	101	97	70	90	84	85	82
40	238	199	187	197	175	168	170	129	143	116	128	105
	239	210	208	202	192	181	203	159	181	201	181	151
41	274	202	183	191	190	176	165	126	111	136	130	114
	256	209	193	195	187	199	192	173	205	193	185	163

TABLE 12. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
43	302	221	209	214	203	196	179	144	164	152	140	128
	282	242	233	209	209	203	205	179	209	208	206	181
Paint-Water, Yellow (60 sec)(continued)												
44	281	241	239	244	213	196	204	164	185	173	169	117
	279	254	253	230	241	213	243	197	236	235	212	188
46	289	235	228	230	196	191	188	166	179	173	161	122
	295	266	243	273	259	236	236	215	234	232	229	185
47	259	192	179	189	162	157	155	110	127	126	106	101
	242	207	202	180	188	162	177	154	177	172	156	162
57	187	135	127	143	126	120	123	90	100	112	89	73
	178	161	155	152	151	144	150	121	146	142	119	117
60	199	138	136	151	145	139	133	91	112	114	105	90
	185	160	159	166	172	170	162	147	167	151	141	144
63	189	169	154	172	165	166	156	112	137	138	118	112
	191	162	158	176	174	163	156	140	158	162	152	154
82	277	136	130	140	133	106	114	81	99	100	96	122
	248	221	223	227	217	201	194	159	194	192	186	183
97	202	142	124	145	137	108	117	85	104	94	94	101
	182	169	163	178	170	159	151	115	150	147	139	139
Paint-Water, Yellow (120 sec)												
69	221	158	142	154	145	141	128	92	110	109	95	85
	233	197	188	205	201	197	188	168	195	173	178	162
Paint-Polyester, White												
70	275	240	225	244	221	213	218	175	194	160	173	149
	294	254	249	224	223	210	232	198	218	223	183	191
Paint-Polyester, Yellow												
71	177	153	152	170	156	151	148	111	124	118	105	94
	192	170	165	169	162	161	164	122	153	144	144	125
Thermoplastic-White, Alkyd												
72	282	342	319	320	306	240	185	150	152	187	216	247
	315	284	281	299	303	294	263	159	165	152	176	168
Thermoplastic-White, Cold Curing												
78	247	274	159	178	186	184	182	119	133	131	137	123
	231	299	217	193	216	266	246	132	166	161	160	140

TABLE 12. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Thermoplastic-Yellow, Alkyd												
73	209	188	149	172	161	152	134	84	90	94	101	110
	230	201	184	200	200	213	213	136	110	126	130	115
Thermoplastic-Yellow, Hydrocarbon												
62	239	197	192	226	239	223	210	165	171	131	132	127
	236	221	188	228	225	242	228	178	198	191	208	201
Permanent Tape, White												
1	333	322	282	283	285	255	235	200	208	204	214	174
	302	307	258	248	259	247	247	251	277	260	284	266
16	386	402	348	332	333	334	293	227	243	225	238	173
	398	427	386	348	368	386	382	344	358	338	342	329
19	427	368	300	293	274	240	134	72	87	82	87	70
	371	404	347	342	344	344	250	120	116	121	114	99
20	417	337	225	186	162	138	111	64	72	73	81	63
	391	377	332	321	323	269	170	96	103	97	109	98
27	890	774	598	610	597	541	486	404	438	406	461	376
	897	927	832	771	753	749	721	682	690	668	708	631
30	542	441	321	296	293	253	235	204	221	210	222	199
	508	455	366	330	331	311	272	260	251	227	242	198
32	794	763	667	697	692	654	586	493	498	488	503	429
	777	739	646	696	658	696	647	669	669	678	759	648
58	491	448	187	190	183	177	0	0	0	0	0	0
	432	424	183	175	168	178	0	0	0	0	0	0
75	386	375	310	326	318	292	272	193	208	171	164	149
	353	370	295	315	325	296	315	290	287	311	319	297
Temporary Tape, White												
14	577	437	334	319	295	293	253	186	231	183	198	154
	581	599	515	511	497	475	460	382	390	401	390	373
Permanent Tape, Yellow												
2	191	179	139	147	143	130	119	85	90	89	96	99
	206	219	163	160	156	164	156	120	119	125	135	129
15	378	399	329	336	326	321	293	229	236	226	236	208
	382	411	358	348	374	392	377	321	316	314	338	322
21	357	310	230	239	226	221	178	118	123	101	120	85
	323	339	295	271	278	279	274	225	242	234	235	215

TABLE 12. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Permanent Tape, Yellow(continued)												
28	726	633	533	522	512	467	424	362	384	346	397	308
	720	722	625	636	576	596	560	529	582	515	551	479
29	392	367	303	307	297	269	245	210	211	205	216	197
	353	334	295	292	297	275	253	217	231	229	245	217
31	550	520	425	461	460	436	406	354	364	356	377	327
	521	492	422	440	465	448	424	426	451	425	489	428
59	280	248	205	187	195	173	61	44	60	0	0	0
	268	283	253	239	221	198	104	89	130	0	0	0
74	365	350	286	298	293	289	240	179	185	174	177	166
	344	368	299	300	305	333	294	264	279	294	300	254
Temporary Tape, Yellow												
13	405	310	240	239	223	216	186	141	149	139	148	132
	420	422	364	373	368	349	326	278	294	265	289	252

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurement.

TABLE 13. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6**	237	212	182	161	141	153	117	114	102	85	74	53
	234	264	246	217	221	211	186	197	206	174	161	151
33	234	118	80	73	74	79	53	64	61	52	48	47
	233	180	155	115	126	113	83	95	101	86	85	78
35	251	160	139	132	135	137	113	141	132	103	83	74
	245	214	200	179	184	172	148	172	183	160	158	143
37	201	160	132	124	115	123	101	121	119	92	81	69
	221	196	179	157	161	147	123	150	159	140	144	136
64	210	179	162	139	133	139	116	133	134	122	99	92
	205	181	162	147	141	146	119	144	152	132	119	110
81	240	187	156	131	116	116	92	98	86	68	59	57
	251	236	210	175	183	176	153	162	165	135	135	110
84	224	175	165	147	137	139	110	118	117	100	84	82
	236	201	185	173	164	152	123	143	146	125	121	98
87	235	232	221	204	216	210	199	216	213	180	151	136
	248	263	257	255	256	252	231	271	283	251	233	226
88	301	311	301	269	264	240	206	192	183	152	123	109
	297	311	313	285	291	270	230	259	258	217	198	186
91	249	200	181	149	142	142	117	132	117	98	66	79
	239	210	194	178	174	164	136	156	159	139	137	124
92	309	264	197	145	122	116	102	128	131	118	97	90
	296	292	211	158	140	120	98	133	164	128	118	108
93	317	291	210	151	124	108	75	98	96	85	74	71
	273	299	245	182	157	111	91	119	123	111	101	88
98	224	219	191	170	158	156	136	145	124	105	83	78
	214	215	199	177	185	179	164	200	200	165	136	128
103	246	188	170	133	127	123	97	130	120	103	75	78
	226	205	196	173	172	153	131	160	159	148	135	130
Paint-Solvent, White (120 sec)												
66	338	308	240	191	169	166	152	120	106	82	68	65
	343	384	311	289	270	253	201	223	213	157	134	114

TABLE 13. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (3 min or more)												
11	218	222	175	154	145	147	121	124	113	91	75	74
	218	256	232	204	208	195	172	187	197	163	162	129
94	181	171	156	144	136	147	127	148	140	130	111	101
	177	167	165	163	163	158	147	161	167	159	153	142
95	187	183	176	163	154	155	134	139	137	120	111	94
	187	193	190	202	179	184	163	178	177	168	160	157
Paint-Solvent, Yellow (60 sec)												
7	166	134	114	112	82	109	95	114	99	77	62	57
	167	159	144	143	137	140	129	143	155	142	136	134
8	174	130	126	124	125	131	110	118	86	67	49	48
	177	176	166	154	154	151	136	157	170	151	154	143
34	216	125	96	87	88	91	75	105	109	100	79	76
	212	162	130	119	120	110	93	111	118	107	107	95
36	197	129	118	97	91	88	67	96	99	91	79	74
	191	127	123	107	99	107	85	100	103	93	86	82
38	219	205	170	164	152	158	124	153	150	124	109	98
	234	214	202	183	182	172	157	186	186	173	156	150
65	210	188	155	139	126	130	93	115	118	103	89	84
	204	187	164	145	139	135	107	141	139	124	110	91
80	204	129	98	95	91	93	73	89	101	92	78	75
	196	154	133	113	117	107	97	106	112	97	97	88
85	210	173	154	128	125	117	89	106	109	92	77	75
	204	186	184	159	159	156	144	172	154	139	127	111
86	141	113	110	101	96	101	98	115	119	104	93	84
	140	127	123	113	117	115	110	124	139	130	119	117
89	147	123	116	103	101	102	93	107	105	82	68	66
	146	137	129	124	123	120	101	127	139	120	117	106
99	202	140	109	103	95	89	76	93	92	81	72	71
	200	152	138	119	128	113	99	97	110	90	94	84
102	218	124	103	92	89	93	67	91	96	86	76	71
	205	126	122	98	98	91	83	97	101	94	85	82

TABLE 13. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (120 sec)												
67	271	223	189	164	145	137	102	114	106	80	66	63
	266	283	211	176	175	166	125	165	173	124	110	86
Paint-Solvent, Yellow (3 min or more)												
12	175	148	124	114	100	115	92	95	94	77	64	62
	181	195	167	148	160	150	129	159	165	145	137	123
Paint-Water, White (60 sec)												
5	221	233	218	200	199	195	187	236	231	194	161	147
	226	249	240	226	234	233	231	252	267	237	219	208
39	304	254	218	215	228	219	190	167	149	128	106	104
	309	324	316	301	297	305	261	315	301	281	271	267
42	312	336	321	296	286	279	252	230	223	191	165	142
	311	370	360	361	354	360	348	347	382	356	345	331
45	293	277	250	227	232	223	204	199	184	159	125	126
	285	314	301	281	281	278	266	303	307	266	259	249
48	225	204	208	199	196	190	175	185	190	161	137	120
	218	296	265	244	249	250	228	270	280	237	230	216
61	224	206	199	186	179	189	166	195	204	179	159	136
	220	228	217	217	214	225	205	223	224	200	188	182
83	217	194	234	195	194	213	195	207	200	176	149	136
	219	256	251	229	247	253	244	271	282	268	255	246
96	199	195	206	186	188	211	187	196	190	169	129	115
	196	231	236	225	231	185	222	247	261	246	240	240
101	348	364	338	311	300	296	278	273	247	213	190	185
	328	382	381	359	369	360	355	374	394	357	356	325
Paint-Water, White (120 sec)												
68	310	265	241	231	222	228	200	196	198	162	129	120
	331	354	336	295	303	321	293	327	327	288	293	280
Paint-Water, Yellow (60 sec)												
9	165	121	106	102	102	112	99	136	146	121	103	93
	154	145	133	123	125	128	114	139	150	133	132	124
10	131	88	79	79	75	80	74	95	109	89	75	70
	125	99	96	89	89	88	86	98	110	97	94	90
40	223	211	212	188	193	194	176	187	184	158	144	133
	220	237	231	205	223	222	208	240	238	221	215	216

TABLE 13. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
41	250	133	117	104	104	104	75	73	72	60	51	51
	248	219	208	194	201	197	156	197	197	172	167	155
43	247	197	200	179	185	182	162	178	166	147	125	113
	242	232	232	215	223	230	208	231	223	209	195	148
44	290	259	237	214	213	210	181	183	180	157	137	123
	276	275	234	240	250	240	224	240	225	211	197	176
46	274	224	191	165	161	152	114	117	116	95	84	84
	256	225	198	189	177	166	158	164	145	126	118	97
47	258	229	198	190	174	167	155	150	143	125	113	105
	248	233	235	204	195	200	171	198	199	171	152	141
57	187	167	159	146	139	137	124	132	128	109	91	89
	179	185	181	167	167	164	153	156	169	157	140	137
60	136	97	94	85	88	88	81	102	106	88	82	71
	149	147	141	136	135	141	129	146	155	146	140	143
63	175	147	141	131	132	140	123	147	157	139	114	107
	176	182	172	163	167	167	157	178	177	151	157	130
82	255	260	237	201	197	185	165	152	139	125	111	102
	250	279	268	250	243	241	242	253	250	235	230	213
97	130	111	99	92	76	76	62	69	71	66	54	56
	136	125	123	97	97	92	92	94	100	88	80	81
100	216	199	194	178	174	167	160	156	151	133	112	108
	225	236	238	222	223	221	215	222	219	204	188	178
Paint-Water, Yellow (120 sec)												
69	264	236	217	199	204	194	180	171	169	136	126	102
	263	274	261	247	251	245	236	233	235	199	191	186
Paint-Polyester, White												
70	150	251	242	206	208	220	212	221	218	195	172	164
	134	289	274	248	250	256	244	250	259	236	233	227
Paint-Polyester, Yellow												
71	92	115	94	94	94	104	95	107	120	106	99	88
	97	145	131	122	122	121	113	136	135	125	124	125
Thermoplastic-White, Alkyd												
72	254	167	122	103	119	115	123	231	258	257	244	255
	355	286	245	207	191	143	148	124	138	131	155	154

TABLE 13. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Thermoplastic-White, Cold Curing												
78	209	326	327	295	279	293	260	271	286	216	169	167
	211	346	342	318	333	342	331	340	353	279	250	256
Thermoplastic-Yellow, Alkyd												
73	232	188	215	142	159	144	130	128	137	137	129	130
	262	229	228	207	226	205	196	189	186	165	192	165
Thermoplastic-Yellow, Hydrocarbon												
62	265	232	229	207	147	124	99	107	112	114	99	95
	249	251	232	241	240	225	234	213	213	192	172	192
Permanent Tape, White												
1	383	364	318	273	257	192	149	125	123	117	108	98
	374	389	381	341	366	369	336	349	303	250	192	226
16	332	395	362	320	310	272	238	198	180	167	148	136
	346	471	441	437	460	406	428	407	386	381	360	342
19	388	421	318	185	142	87	78	85	90	90	88	84
	374	455	408	347	323	228	172	142	129	125	118	106
20	402	448	314	165	127	82	78	86	94	95	90	83
	409	467	462	347	312	232	182	163	145	138	127	120
27	1023	1005	919	804	841	733	701	640	539	488	358	389
	1079	865	1081	965	1009	1027	987	977	938	896	910	869
30	505	518	380	278	268	258	242	273	265	244	215	200
	501	515	505	386	429	372	359	400	371	336	306	297
32	712	810	751	691	700	574	557	529	458	413	377	356
	733	783	793	719	826	773	762	795	671	685	633	627
58	204	177	132	108	112	82	76	68	63	64	65	60
	160	185	170	134	134	135	91	110	65	82	71	79
75	325	373	342	280	260	199	150	121	106	98	90	85
	311	341	348	311	343	343	329	347	313	320	302	277
Temporary Tape, White												
14	731	661	585	527	475	432	384	351	276	267	231	198
	715	710	674	604	636	612	584	575	556	533	519	492
Permanent Tape, Yellow												
2	260	195	169	140	140	127	102	83	68	63	58	51
	259	237	222	199	215	211	199	209	202	181	165	152

TABLE 13. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, Yellow(continued)												
15	292	377	371	316	325	311	269	198	179	156	139	129
	307	436	441	416	453	420	420	406	384	399	367	387
21	314	326	243	165	138	87	83	80	77	76	72	66
	341	363	335	273	277	253	217	214	167	177	153	142
28	859	834	787	677	648	602	561	482	436	358	314	273
	856	887	857	771	821	780	779	797	737	701	674	688
29	439	463	433	365	378	333	281	272	254	234	235	190
	462	479	465	413	438	415	388	421	412	361	367	334
31	590	588	551	507	510	463	453	425	404	360	332	300
	603	595	614	557	589	592	577	593	577	545	540	550
59	324	308	230	181	170	126	92	86	75	70	64	53
	309	290	279	245	243	241	199	184	160	141	119	127
74	373	378	331	288	275	206	164	130	102	87	78	71
	359	377	377	332	354	353	314	345	320	313	243	304
Temporary Tape, Yellow												
13	533	468	412	335	337	315	265	249	218	181	160	143
	534	526	488	425	449	447	396	441	405	401	388	379

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurement.

TABLE 14. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6**	265	243	202	181	163	106	131	121	113	138	132	98
	296	227	241	229	221	174	199	164	146	173	168	141
33	204	167	160	149	137	113	106	99	106	110	116	115
	231	210	194	189	170	145	161	137	128	127	145	122
35	212	184	170	151	138	115	111	104	105	113	112	109
	226	223	207	202	180	159	176	138	138	135	137	153
37	184	159	150	148	133	105	105	101	97	102	110	109
	183	173	172	169	153	139	148	118	116	113	124	121
64	234	221	191	172	156	106	132	119	116	136	126	112
	259	234	225	230	215	170	203	164	144	172	164	138
81	242	186	171	161	144	113	113	105	102	97	87	88
	273	225	211	203	186	162	177	138	142	137	133	126
84	274	237	198	175	156	95	111	128	97	116	99	88
	306	268	261	237	223	170	186	159	133	160	149	125
87	220	206	207	192	188	167	206	169	181	183	170	147
	229	217	225	224	211	199	232	189	185	202	192	182
88	275	259	257	240	230	198	210	176	167	163	137	145
	286	274	298	284	277	260	271	214	210	200	204	177
91	252	195	176	171	154	129	131	120	104	114	99	100
	263	222	211	199	189	169	178	136	131	146	137	128
92	341	307	280	267	246	209	207	173	155	152	138	130
	347	321	310	298	274	253	240	189	184	173	173	146
93	370	320	287	271	239	183	147	112	103	101	95	97
	394	341	339	318	270	233	219	163	130	130	134	112
98	227	189	168	164	139	115	111	94	88	98	95	96
	231	217	204	199	174	155	173	136	120	125	134	123
103	288	212	200	177	166	127	114	120	121	130	115	111
	296	261	255	235	210	188	181	178	167	166	145	151
Paint-Solvent, White (120 sec)												
66	351	293	269	239	194	164	156	129	143	132	133	127
	342	311	300	263	230	204	225	157	177	169	174	141

TABLE 14. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (3 min or more)												
11	256	222	167	149	122	90	109	101	87	105	98	79
	288	221	224	212	180	144	168	138	106	135	120	101
94	325	287	273	256	231	210	199	187	175	188	186	166
	323	312	299	294	271	258	271	218	223	236	232	198
95	298	242	219	196	180	146	149	130	124	134	132	128
	299	264	259	247	207	196	223	173	171	173	174	151
Paint-Solvent, Yellow (60 sec)												
7	236	205	154	141	117	96	108	91	90	100	90	86
	237	221	207	198	169	149	153	125	120	126	121	105
8	237	205	183	158	135	102	116	101	108	110	94	90
	249	224	218	213	193	163	173	139	133	140	134	121
34	184	156	135	115	97	87	87	68	87	92	93	89
	188	174	173	166	143	134	132	87	113	102	112	107
36	165	152	142	123	102	90	96	91	97	100	89	88
	183	167	166	163	141	127	127	107	117	106	108	96
38	218	185	151	135	110	99	106	93	96	104	90	90
	213	209	197	196	174	142	153	122	117	129	119	107
65	218	211	180	165	144	101	118	106	97	117	100	91
	239	219	235	216	202	171	184	153	130	160	144	128
80	278	211	183	176	158	109	121	107	95	76	92	84
	281	253	232	228	207	177	191	159	151	154	145	138
85	227	218	190	176	157	91	108	101	100	111	96	74
	233	220	235	222	194	155	173	139	108	149	140	108
86	206	181	174	164	154	136	149	127	119	131	120	113
	216	204	202	199	180	168	188	150	143	155	137	133
89	183	161	149	141	128	102	112	99	104	110	97	98
	200	185	178	173	156	137	154	125	120	132	116	118
99	270	214	183	167	154	108	94	101	96	98	92	85
	294	253	242	229	219	183	172	174	142	157	156	136
102	278	214	204	181	164	127	115	111	114	122	116	108
	265	238	233	225	188	173	176	143	139	141	147	128

TABLE 14. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (120 sec)												
67	245	220	209	177	147	109	124	98	111	107	112	102
	248	226	226	204	172	153	169	123	140	156	138	126
Paint-Solvent, Yellow (3 min or more)												
12	220	189	159	143	118	76	88	71	65	80	70	56
	238	205	187	176	154	120	133	112	89	110	99	91
Paint-Water, White (60 sec)												
5	208	191	186	172	155	135	159	139	155	137	145	130
	235	219	231	215	204	176	202	170	197	186	190	183
39	381	347	336	271	257	214	264	240	261	235	242	223
	382	365	397	361	333	293	359	310	324	322	331	308
42	391	354	338	279	266	232	268	218	266	244	240	223
	395	384	401	362	358	311	349	305	303	322	332	319
45	293	259	256	210	198	169	195	173	182	170	172	168
	303	296	289	269	249	220	229	225	236	225	233	205
48	322	275	256	218	209	167	189	171	181	173	176	169
	313	303	289	277	265	236	251	216	232	234	237	204
61	284	265	237	215	193	170	208	172	192	206	195	187
	290	280	284	264	259	231	260	225	233	242	235	223
83	314	258	241	224	214	188	203	200	198	204	170	179
	357	319	331	306	283	269	284	293	275	256	277	263
96	209	183	176	179	158	143	159	133	141	134	141	133
	212	210	198	190	182	177	187	163	177	156	175	162
Paint-Water, White (120 sec)												
68	239	220	213	187	161	155	183	149	166	164	174	171
	262	248	251	234	215	219	234	195	206	197	205	207
Paint-Water, Yellow (60 sec)												
9	180	164	162	148	129	115	134	110	117	109	111	113
	199	190	195	186	171	156	173	151	153	153	161	142
10	151	140	130	122	106	92	110	90	100	91	94	93
	162	157	154	156	143	127	140	109	128	126	126	114
40	247	226	208	180	164	129	148	124	133	139	141	138
	233	238	234	229	205	201	207	179	186	183	195	187
41	219	205	190	165	140	114	132	105	120	122	128	121
	215	224	222	209	189	188	196	157	168	171	186	176

TABLE 14. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
43	245	244	219	195	165	149	170	148	161	162	170	156
	184	238	241	231	202	201	220	189	187	232	200	192
44	351	339	282	246	211	176	211	180	204	208	212	190
	360	349	350	326	301	281	304	251	278	225	291	279
46	302	287	274	221	195	141	174	151	173	175	178	167
	298	296	302	285	247	236	263	216	240	199	234	227
47	285	257	227	181	155	122	154	132	159	150	157	151
	289	275	273	263	236	222	246	213	229	214	231	207
57	197	183	162	142	120	110	131	108	115	113	117	115
	204	205	204	198	175	170	187	163	162	158	170	163
60	183	161	141	136	108	80	106	91	95	112	115	101
	194	196	201	190	170	152	178	154	147	172	163	150
63	206	201	180	173	146	126	156	126	137	151	146	136
	221	219	205	209	197	175	199	159	166	185	181	160
82	258	174	166	157	139	194	146	127	119	129	121	115
	294	274	278	265	256	233	263	215	232	235	221	218
97	229	171	154	149	142	119	124	119	112	121	106	102
	253	228	235	220	216	183	209	190	187	196	197	176
Paint-Water, Yellow (120 sec)												
69	215	195	167	149	126	118	133	107	124	114	118	113
	218	216	219	214	183	170	193	164	162	208	173	162
Paint-Polyester, White												
70	275	253	244	221	202	191	199	165	177	169	171	163
	284	266	272	260	244	192	244	200	226	216	230	214
Paint-Polyester, Yellow												
71	187	182	163	156	129	129	140	117	121	150	111	109
	201	196	198	190	166	169	179	154	154	153	154	143
Thermoplastic-White, Alkyd												
72	323	302	316	323	303	256	209	207	153	193	227	276
	368	324	355	346	337	289	272	251	186	227	219	237
Thermoplastic-White, Cold Curing												
78	211	313	301	300	280	278	271	296	189	235	202	260
	214	290	339	341	338	308	332	309	253	311	306	293

TABLE 14. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Thermoplastic-Yellow, Alkyd												
73	240	207	207	204	152	146	125	124	92	112	122	144
	269	192	220	217	192	179	178	152	102	123	121	144
Thermoplastic-Yellow, Hydrocarbon												
62	246	243	243	251	237	230	242	191	119	194	122	106
	268	191	246	256	239	217	248	221	175	215	211	221
Permanent Tape, White												
1	267	250	247	248	225	173	214	198	162	183	163	136
	287	281	289	282	289	232	252	227	236	269	244	210
16	463	393	389	374	354	318	311	301	254	277	264	205
	461	466	449	416	439	370	397	381	365	352	359	314
19	417	375	281	256	214	105	113	69	58	82	63	94
	418	425	384	367	349	245	179	135	118	118	112	112
20	416	345	219	187	121	62	65	53	43	57	53	58
	423	408	372	333	288	187	136	117	100	108	103	98
27	943	747	663	653	600	399	439	403	408	413	411	293
	837	797	746	743	717	566	635	593	571	567	508	478
30	526	438	318	295	264	184	192	198	178	205	210	170
	521	484	411	385	348	245	280	246	236	256	251	211
32	741	679	569	588	574	437	348	366	354	377	365	261
	756	746	707	733	720	602	662	614	584	653	600	540
58	267	241	175	150	114	62	97	96	68	82	85	68
	250	226	230	228	226	172	194	169	174	176	180	154
75	427	393	308	307	279	225	220	203	148	152	141	101
	48	443	418	390	384	305	338	317	271	263	264	245
Temporary Tape, White												
14	604	501	376	355	309	180	176	158	165	193	165	126
	603	531	510	492	471	410	400	377	354	363	351	296
Permanent Tape, Yellow												
2	254	193	222	149	134	96	127	105	96	106	103	88
	328	276	248	262	248	188	205	189	170	190	177	154
15	401	369	336	338	312	270	314	272	236	249	226	201
	411	404	394	392	394	346	369	341	335	328	347	287
21	334	291	218	208	176	103	122	93	78	79	77	62
	342	328	301	294	265	208	215	198	180	177	158	151

TABLE 14. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Permanent Tape, Yellow(continued)												
28	785	668	507	474	430	267	285	293	285	280	281	202
	754	680	664	650	627	499	535	570	530	558	524	454
29	435	408	283	288	270	181	179	189	175	190	189	148
	394	409	365	375	337	247	276	255	243	270	248	220
31	488	459	373	387	363	278	282	275	256	288	287	241
	510	506	467	490	459	389	418	410	382	434	406	380
59	263	261	195	170	152	90	120	92	73	79	75	60
	315	309	295	295	282	224	237	213	187	205	188	171
74	380	350	275	280	240	213	200	192	149	157	143	98
	391	370	353	344	335	273	291	269	255	253	252	230
Temporary Tape, Yellow												
13	394	348	257	248	219	151	140	130	126	144	134	101
	419	401	374	372	331	302	278	270	253	269	262	231

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurement.

TABLE 15. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6**	77	66	56	46	43	53	41	49	54	44	45	43
	76	70	61	59	58	65	52	54	57	49	49	48
33	101	59	47	48	47	56	46	57	62	48	49	44
	81	69	52	47	53	59	48	54	61	45	56	49
35	75	54	45	42	48	52	43	51	59	41	44	42
	77	59	44	45	49	57	45	48	58	57	54	48
37	120	80	61	50	53	60	45	37	40	29	31	28
	134	91	88	83	76	75	57	55	45	38	40	33
64	56	48	37	34	37	44	36	43	46	43	40	38
	64	54	46	50	51	58	43	48	51	41	46	44
81	113	84	69	55	59	66	55	57	57	47	44	41
	112	95	84	63	72	78	65	71	70	62	60	59
84	73	56	36	45	50	58	46	50	53	44	43	40
	75	59	47	52	54	60	46	50	54	44	48	50
87	99	65	56	50	47	50	46	39	44	38	40	41
	94	66	64	63	61	60	52	69	60	57	59	56
88	105	70	58	54	51	55	47	55	50	47	46	41
	89	70	60	59	57	61	53	64	72	58	58	58
98	89	65	51	34	44	52	39	51	52	43	40	37
	76	68	53	50	49	56	44	52	60	46	50	52
103	77	52	38	39	40	52	40	37	44	28	30	30
	80	59	46	46	53	59	44	44	52	38	42	42
Paint-Solvent, White (120 sec)												
66	81	54	47	41	42	52	37	45	48	40	36	35
	73	57	47	48	46	60	43	48	54	45	41	43
Paint-Solvent, White (3 min or more)												
11	82	65	53	45	47	56	43	55	55	41	41	43
	84	72	62	54	57	66	50	62	66	52	54	59
Paint-Solvent, Yellow (60 sec)												
7	62	50	35	35	29	38	31	34	42	30	31	27
	68	52	43	42	38	45	35	36	42	35	39	32
8	65	49	40	35	33	42	33	32	41	32	34	32
	61	50	40	36	35	42	32	35	40	31	35	34

TABLE 15. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
34	119	66	50	42	41	47	38	50	49	37	41	38
	113	79	64	52	52	59	47	51	52	39	45	45
36	108	65	44	43	38	46	39	44	51	39	43	40
	105	71	51	50	49	56	43	46	51	38	44	45
38	115	64	49	40	41	46	38	43	48	33	36	36
	115	69	58	53	54	60	46	50	52	37	45	42
65	89	44	32	29	29	37	28	35	42	31	35	31
	65	51	38	36	39	43	34	38	42	33	38	39
80	104	53	41	37	37	44	36	44	47	33	40	39
	95	56	45	44	44	47	37	42	49	33	43	43
85	78	45	35	30	29	38	29	35	44	33	36	34
	58	49	38	38	40	44	35	39	41	34	37	37
86	67	47	41	39	37	33	34	38	42	36	37	36
	72	55	47	47	46	48	43	47	54	44	47	50
89	83	46	40	37	36	40	37	38	43	36	40	36
	69	48	43	39	38	41	37	47	48	42	44	41
99	101	54	43	39	37	41	35	41	43	33	39	37
	96	62	52	48	46	58	43	42	44	35	41	40
102	148	86	67	56	43	63	51	43	43	32	34	33
	148	98	84	74	76	73	57	61	64	47	53	52
Paint-Solvent, Yellow (120 sec)												
67	54	44	30	30	41	37	27	32	35	29	26	27
	58	46	35	37	45	44	33	42	44	38	35	34
Paint-Solvent, Yellow (3 min or more)												
12	68	47	35	34	35	41	33	34	39	33	30	28
	63	51	37	38	34	42	31	42	49	38	40	39
Paint-Water, White (60 sec)												
5	62	51	43	38	39	42	35	38	41	31	33	30
	92	51	45	45	40	48	37	38	42	33	37	33
39	70	54	52	48	45	54	45	51	54	47	42	44
	66	59	50	51	51	59	50	52	55	48	48	53
42	72	62	47	46	50	57	48	50	54	43	41	43
	63	58	53	53	53	60	49	59	60	47	51	51

TABLE 15. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, White (60 sec)(continued)												
45	60	48	39	37	31	46	37	34	42	34	39	33
	56	50	43	43	37	50	41	44	51	41	42	42
48	64	46	27	37	35	43	33	34	38	31	35	32
	62	51	43	41	40	46	37	40	44	36	38	39
61	70	55	44	40	40	47	40	43	45	38	38	37
	73	58	44	43	40	48	41	46	50	40	44	44
83	84	60	49	51	48	55	34	44	48	41	39	44
	69	64	50	53	52	62	55	54	51	48	49	48
96	57	48	39	39	40	47	38	33	38	35	33	34
	68	55	47	46	45	52	41	49	48	40	41	38
101	78	64	53	49	50	54	47	44	51	39	34	38
	78	72	62	57	55	63	49	59	59	43	46	48
Paint-Water, White (120 sec)												
68	69	56	47	42	42	48	38	40	42	36	36	35
	66	52	47	48	46	52	47	44	47	39	39	39
Paint-Water, Yellow (60 sec)												
9	70	39	30	31	30	36	29	31	33	26	27	26
	73	38	31	31	31	36	29	31	34	28	28	26
10	58	38	24	30	28	34	26	26	32	21	23	22
	50	41	32	31	34	36	27	28	34	26	27	26
40	70	48	35	37	38	45	38	33	37	29	28	31
	58	48	41	37	41	46	41	42	44	37	40	35
41	67	40	33	35	32	38	32	28	38	27	27	29
	50	43	37	36	36	42	35	36	33	30	33	35
43	64	44	30	31	27	36	29	29	36	26	26	25
	53	41	34	35	32	39	33	43	36	28	31	30
44	58	47	38	37	35	41	35	39	40	33	32	41
	61	50	44	44	43	48	41	42	43	37	39	41
46	54	43	36	35	30	39	32	33	36	30	31	33
	60	44	37	38	37	42	37	33	37	35	37	41
47	61	43	39	36	33	38	32	27	31	25	28	29
	67	43	36	36	35	41	35	35	39	31	35	37
57	47	37	27	27	25	32	26	47	30	24	25	27
	50	35	26	30	28	34	28	49	34	26	29	29

TABLE 15. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
60	70	40	32	30	30	46	27	24	31	23	26	28
	56	45	37	36	34	42	34	38	41	33	37	38
63	68	44	33	33	33	39	31	29	34	28	28	29
	62	49	41	35	34	44	32	39	42	32	36	35
82	76	52	44	40	34	41	34	35	36	32	35	34
	83	51	45	45	43	47	44	42	45	38	41	40
97	57	37	29	29	28	33	28	28	34	25	27	29
	62	41	27	35	34	36	28	33	32	26	28	28
100	61	49	39	40	38	42	38	36	40	31	37	35
	83	46	38	37	37	45	38	36	40	36	38	36
Paint-Water, Yellow (120 sec)												
69	52	39	28	20	20	25	15	19	23	17	20	19
	54	42	38	38	37	42	35	38	25	27	32	22
Paint-Polyester, White												
70	70	47	34	34	34	40	33	31	34	33	32	34
	55	44	38	36	35	46	33	32	36	33	35	36
Paint-Polyester, Yellow												
71	44	36	27	28	28	35	26	28	34	35	28	36
	62	43	31	37	23	39	25	23	44	43	42	39
Thermoplastic-White, Alkyd												
72	94	33	39	63	76	95	97	220	237	193	222	219
	92	48	56	63	68	68	60	67	116	100	134	149
Thermoplastic-White, Cold Curing												
78	94	29	33	32	35	35	30	46	75	59	52	49
	65	46	37	38	34	39	33	35	74	43	39	40
Thermoplastic-Yellow, Alkyd												
73	88	28	25	35	44	58	49	99	120	102	115	118
	88	49	31	44	44	51	40	43	74	51	65	81
Thermoplastic-Yellow, Hydrocarbon												
62	43	38	28	38	51	65	62	86	102	82	86	79
	53	38	33	28	32	44	32	49	58	62	64	79

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurement.

TABLE 16.

Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6**	91	91	73	109	104	107	109	79	71	77	65	59
	84	80	69	106	98	90	90	66	73	76	77	77
33	107	88	65	108	108	103	103	67	101	76	60	60
	108	96	71	113	100	103	89	67	71	73	77	68
35	104	89	68	114	117	116	92	84	81	77	65	59
	94	84	65	104	95	87	97	71	74	79	81	74
37	121	92	75	130	112	121	118	78	84	80	66	60
	119	101	80	125	115	106	107	74	76	78	78	72
64	104	81	71	135	152	150	130	74	72	72	58	57
	85	73	54	102	95	100	89	63	62	64	66	68
81	95	103	73	137	123	109	112	75	89	95	60	51
	93	90	80	109	103	95	89	76	72	75	73	68
84	92	85	60	109	101	121	127	82	82	74	64	65
	82	73	56	103	95	88	85	60	63	63	66	68
87	109	104	98	143	122	175	113	82	77	120	68	63
	88	103	93	122	106	88	93	78	81	110	75	63
88	108	110	83	141	104	148	111	80	79	106	66	63
	98	99	90	133	104	90	95	69	76	83	74	65
91	71	93	67	119	108	67	88	66	61	87	61	50
	82	102	71	159	119	73	82	58	78	96	65	53
92	88	102	95	133	128	102	142	114	104	105	95	74
	88	94	95	132	125	88	123	93	92	124	112	89
93	91	82	77	115	115	124	120	90	77	86	74	64
	84	84	80	110	100	92	93	74	90	92	81	80
98	89	97	75	165	97	71	98	72	64	59	57	55
	70	80	79	102	93	65	77	67	63	75	79	63
103	89	90	70	108	94	79	150	72	62	67	55	51
	86	94	83	114	98	94	87	56	80	69	72	49
Paint-Solvent, White (120 sec)												
66	95	84	56	103	91	88	100	64	77	79	59	44
	84	84	58	106	95	86	88	65	71	71	71	70

TABLE 16. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (3 min or more)												
11	88	90	72	112	103	99	103	82	78	76	64	68
	83	79	72	110	98	91	93	80	80	86	86	87
94	86	98	87	116	109	79	106	82	78	80	72	70
	85	96	92	124	110	86	103	85	80	86	86	75
95	80	99	99	129	103	123	127	66	70	129	57	55
	74	85	79	107	94	82	84	65	68	88	73	56
Paint-Solvent, Yellow (60 sec)												
7	83	78	78	116	98	87	98	64	76	71	54	48
	69	66	53	93	83	65	68	50	48	55	53	48
8	86	75	76	111	166	154	147	71	76	85	56	48
	65	62	50	87	79	66	62	45	45	52	48	47
34	95	82	63	102	94	103	104	61	64	58	56	34
	92	80	63	102	88	82	79	55	57	62	62	54
36	73	93	62	101	95	123	86	62	55	72	55	48
	76	75	58	99	89	77	69	55	55	56	56	52
38	90	90	62	100	111	94	94	58	57	70	57	57
	82	77	61	100	93	80	69	52	59	61	61	60
65	80	73	62	97	101	116	96	63	61	57	53	50
	77	69	50	95	83	82	77	58	55	55	60	59
80	91	85	75	101	99	103	110	66	61	89	56	52
	91	87	73	108	99	82	86	61	64	66	59	56
85	74	112	55	94	84	91	91	56	77	54	52	52
	77	70	47	91	80	70	69	50	55	52	53	53
86	97	103	80	140	118	82	142	73	57	88	60	49
	95	124	107	157	112	105	80	59	62	145	62	46
89	68	80	67	99	88	73	83	64	57	79	52	48
	66	77	74	104	89	77	82	62	64	63	64	55
99	84	86	70	103	98	91	94	66	62	70	59	51
	85	92	72	108	93	79	71	56	69	87	54	47
102	86	87	80	110	102	78	112	74	70	78	62	60
	90	91	94	119	112	80	96	65	74	91	75	59

TABLE 16.

Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt
Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (120 sec)												
67	92	83	52	100	95	109	98	58	55	63	49	42
	81	78	58	99	88	72	73	53	58	58	59	56
Paint-Solvent, Yellow (3 min or more)												
12	89	87	60	98	92	89	89	59	57	80	52	50
	75	71	57	93	84	73	72	52	53	56	56	55
Paint-Water, White (60 sec)												
5	91	87	65	114	106	170	107	84	79	77	59	35
	80	82	63	100	88	79	88	57	58	61	58	56
39	102	100	60	132	124	126	120	62	92	76	53	45
	80	70	48	92	83	77	82	56	57	61	57	53
42	113	114	70	127	165	149	182	64	77	67	55	54
	94	85	62	101	88	88	84	66	65	65	65	59
45	119	95	75	129	120	126	128	66	136	88	58	52
	78	77	56	95	88	92	81	54	60	57	58	54
48	103	110	64	101	107	139	106	68	80	59	52	48
	75	71	53	94	81	75	78	56	58	54	57	54
61	93	82	66	96	85	130	98	66	132	90	66	49
	91	80	61	100	87	86	88	61	60	61	63	61
83	118	65	46	86	83	76	73	46	44	49	34	37
	97	80	56	102	89	82	85	50	67	66	66	62
96	111	68	43	89	80	89	84	47	56	47	39	54
	98	76	54	98	83	78	70	55	60	59	60	58
Paint-Water, White (120 sec)												
68	84	80	59	91	99	104	94	60	62	60	56	23
	87	64	68	112	98	87	87	61	67	71	72	63
Paint-Water, Yellow (60 sec)												
9	77	76	88	95	101	110	81	54	52	107	54	30
	76	80	61	96	87	72	74	49	57	72	61	49
10	69	70	56	91	88	88	103	49	50	59	43	27
	64	64	55	88	79	64	63	49	64	65	50	45
40	69	71	57	96	87	75	84	59	53	91	46	35
	63	67	51	86	78	63	64	48	45	55	48	45
41	77	70	53	91	82	86	81	54	62	48	44	37
	65	59	48	86	74	51	65	48	53	48	48	46

TABLE 16. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
43	78	71	57	91	82	93	80	52	64	60	48	23
	67	65	49	88	78	66	63	46	48	50	50	47
44	78	72	65	121	108	155	124	60	75	83	53	30
	69	65	53	89	81	77	71	49	52	54	54	49
46	91	85	73	105	111	120	99	65	61	96	59	47
	72	72	55	91	82	85	77	49	60	73	55	49
47	76	79	55	101	81	144	101	59	94	92	48	30
	67	68	52	90	81	80	64	50	49	59	49	44
57	68	66	55	95	88	94	82	56	67	58	45	38
	63	63	50	97	84	66	70	54	61	51	48	46
60	86	52	38	79	70	72	73	44	36	37	35	29
	73	65	49	87	78	56	58	43	49	52	50	46
63	114	125	60	139	87	***	151	64	***	54	55	46
	72	69	52	91	80	62	65	44	64	52	50	47
82	94	48	27	72	61	62	52	32	29	32	29	36
	78	67	42	87	76	82	64	37	50	49	50	47
97	86	69	54	162	140	191	140	50	48	44	43	41
	77	62	40	83	71	58	57	40	42	44	43	40
Paint-Water, Yellow (120 sec)												
69	88	70	55	91	83	94	93	55	52	50	44	42
	76	71	61	94	83	68	76	50	78	71	56	50
Paint-Polyester, White												
70	73	96	63	108	88	147	100	62	74	92	54	45
	68	80	61	104	93	68	80	60	56	70	56	53
Paint-Polyester, Yellow												
71	66	85	54	97	99	110	93	57	54	75	50	40
	67	92	63	97	98	85	80	58	52	58	49	45
Thermoplastic-White, Alkyd												
72	70	88	70	139	146	240	197	162	***	232	293	277
	74	144	78	151	202	211	145	101	***	156	173	133
Thermoplastic-White, Cold Curing												
78	150	118	46	121	80	177	122	55	48	68	52	37
	120	144	55	255	72	174	81	39	56	60	58	40

TABLE 16. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)(continued)

REFLECTIVITY MEASUREMENTS*												
SAMPLE NUMBER	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Thermoplastic-Yellow, Alkyd												
73	95	79	56	107	102	130	123	80	46	91	107	94
	74	112	63	159	102	145	94	77	47	78	80	66
Thermoplastic-Yellow, Hydrocarbon												
62	90	90	56	116	115	204	118	98	47	104	96	98
	68	143	47	110	94	222	141	79	46	104	106	99

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurement.

*** No data available.

TABLE 17. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement (Kentucky)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6**	87	46	52	49	46	57	40	48	55	52	46	49
	83	56	60	59	52	61	46	50	58	52	49	54
33	155	88	81	71	68	76	50	68	68	59	51	52
	159	102	93	89	84	88	60	71	81	70	64	68
35	144	70	65	58	53	65	43	63	66	58	48	51
	146	88	81	75	77	79	53	66	71	62	64	64
37	141	67	63	55	53	62	40	53	53	49	44	47
	139	83	66	69	69	70	48	53	63	55	50	55
64	65	49	54	54	46	47	38	46	62	50	45	46
	62	57	59	63	59	54	47	54	61	57	63	56
81	121	67	64	67	60	62	55	64	63	57	53	54
	114	72	71	69	67	61	56	64	73	61	59	62
84	63	44	55	50	44	47	41	52	56	54	61	49
	53	59	62	67	59	54	45	54	64	57	59	63
87	111	51	51	57	44	49	49	46	61	56	50	49
	94	58	70	64	58	58	49	59	65	66	57	65
88	90	54	59	52	56	53	48	58	63	49	42	51
	82	56	57	59	56	53	47	62	68	61	59	62
91	110	59	58	50	48	48	42	56	60	55	50	53
	106	61	58	57	51	48	42	46	53	51	50	53
92	113	67	77	61	76	78	72	107	108	102	94	89
	105	78	80	81	85	81	73	116	140	126	119	122
93	94	57	56	56	52	58	48	75	78	73	69	65
	89	60	60	65	58	54	48	75	87	81	80	86
98	93	60	59	56	50	50	43	55	54	52	49	49
	91	65	56	57	50	52	43	55	60	54	52	53
103	105	54	57	54	50	48	39	53	55	50	46	50
	91	59	55	58	56	49	39	51	56	48	52	56
Paint-Solvent, White (120 sec)												
66	66	40	44	45	40	43	39	49	55	50	42	46
	66	43	45	50	48	46	41	53	62	54	49	48

TABLE 17. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement (Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (3 min or more)												
11	83	55	52	51	35	57	42	56	61	51	46	48
	82	56	58	57	54	61	45	55	67	57	57	58
94	99	66	73	72	62	63	62	70	78	73	72	66
	89	66	73	73	61	66	58	66	72	73	74	71
95	76	52	54	56	48	48	42	46	49	45	44	46
	74	57	59	56	57	48	47	51	57	53	54	54
Paint-Solvent, Yellow (60 sec)												
7	69	39	42	44	35	30	32	33	40	38	38	41
	65	43	44	46	37	33	34	36	39	38	39	41
8	72	31	37	38	31	31	26	40	47	39	38	37
	68	30	35	37	31	30	25	30	40	32	34	36
34	74	47	42	42	40	40	31	43	50	45	41	42
	67	51	46	46	42	38	34	42	45	41	39	43
36	46	37	40	41	35	39	33	42	49	45	44	43
	52	43	44	45	41	39	30	38	46	40	44	46
38	76	46	47	47	41	41	36	42	51	43	41	42
	63	54	54	55	51	47	40	46	52	43	53	49
65	51	42	47	48	38	42	36	45	51	46	43	48
	68	54	55	53	51	45	37	44	50	46	45	52
80	52	40	40	42	38	36	35	43	49	45	44	45
	60	46	45	44	39	38	33	42	45	42	42	42
85	62	40	42	41	39	38	35	40	45	42	42	47
	57	46	47	49	47	40	34	41	45	40	42	47
86	53	40	43	44	40	41	37	41	47	43	40	43
	59	46	46	49	45	42	38	48	53	49	49	51
89	68	41	42	39	37	37	32	43	49	42	40	42
	60	47	43	45	43	39	33	45	54	47	47	49
99	56	42	40	44	37	37	36	39	44	42	39	42
	54	45	48	45	42	38	37	38	44	42	40	44
102	69	45	50	49	42	45	35	51	52	49	43	46
	58	54	53	53	48	45	39	58	62	51	51	56

TABLE 17. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (120 sec)												
67	77	32	37	39	33	34	31	40	44	38	32	35
	66	35	40	38	38	36	31	46	55	45	40	41
Paint-Solvent, Yellow (3 min or more)												
12	70	37	41	40	36	45	31	46	49	43	37	41
	78	47	46	49	42	51	38	46	55	48	43	49
Paint-Water, White (60 sec)												
5	73	45	46	47	45	44	37	33	45	37	37	37
	56	47	49	52	47	44	40	45	54	48	47	50
39	79	38	44	49	41	53	40	40	48	38	35	40
	77	37	46	55	48	53	39	44	54	46	43	46
42	72	42	47	46	44	56	41	50	58	47	41	41
	73	42	48	54	46	56	42	51	60	47	48	48
45	118	37	44	45	46	53	38	38	42	36	33	31
	66	35	46	46	44	51	36	44	51	46	43	43
48	70	37	43	47	45	53	37	39	44	38	33	40
	77	47	52	54	52	60	44	47	60	51	49	51
61	66	47	46	52	41	42	41	46	50	49	41	42
	70	57	56	56	48	49	44	51	57	50	47	52
83	72	43	48	50	45	46	43	42	48	44	41	43
	76	47	48	53	45	48	41	51	56	52	45	50
96	83	41	49	49	41	41	38	42	43	38	36	39
	80	50	57	56	48	46	42	47	58	51	47	48
101	87	50	56	56	48	56	44	51	57	55	52	53
	68	52	53	56	52	51	45	50	59	57	53	56
Paint-Water, White (120 sec)												
68	113	39	47	42	42	46	28	27	37	34	31	35
	82	46	52	52	45	56	45	44	54	44	45	45
Paint-Water, Yellow (60 sec)												
9	53	31	36	36	32	31	29	35	37	35	32	34
	54	32	36	40	33	30	28	32	41	36	35	37
10	48	25	30	33	27	26	23	28	33	30	28	32
	49	26	30	32	28	26	25	28	34	30	30	30
40	59	30	33	37	32	32	32	35	41	36	31	37
	49	27	34	36	32	29	28	31	37	34	32	40

TABLE 17. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement (Kentucky)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
41	45	29	37	39	32	31	30	33	40	37	33	38
	44	27	29	39	30	28	27	31	40	35	33	37
43	59	29	34	37	33	32	31	34	40	33	29	34
	50	32	37	38	37	32	32	33	42	35	35	36
44	67	35	42	41	34	38	33	37	44	41	36	39
	63	41	44	48	40	39	40	41	47	43	43	48
46	59	37	43	44	42	40	38	36	43	39	38	38
	51	42	45	47	42	41	37	38	46	45	41	46
47	43	33	44	38	36	37	36	32	43	40	30	38
	52	39	40	45	41	39	36	36	44	40	38	39
57	46	30	33	35	34	32	30	32	35	30	28	33
	41	36	40	38	38	37	35	37	49	39	34	44
60	58	31	39	35	30	29	30	28	36	34	30	34
	51	31	38	38	34	33	31	34	41	36	35	39
63	59	39	41	44	36	37	38	38	42	41	38	39
	55	39	41	44	38	35	34	38	44	38	37	40
82	71	43	46	46	41	41	41	37	45	41	38	43
	72	44	45	44	45	43	42	44	49	47	46	49
97	44	37	39	39	32	34	31	32	39	34	33	37
	49	34	39	40	36	30	29	34	42	36	37	39
100	53	38	43	43	41	40	38	40	43	38	38	42
	43	37	40	43	38	35	32	35	41	38	38	41
Paint-Water, Yellow (120 sec)												
69	79	28	34	33	29	38	26	27	33	29	26	30
	60	33	34	40	36	44	35	37	45	38	36	41
Paint-Polyester, White												
70	109	34	40	41	39	50	39	40	47	43	43	45
	74	34	42	46	41	52	37	40	53	46	47	48
Paint-Polyester, Yellow												
71	51	19	26	28	25	34	25	28	37	29	25	32
	50	22	25	28	24	32	19	24	32	26	23	27
Thermoplastic-White, Alkyd												
72	83	24	42	59	62	90	90	220	230	238	231	221
	109	42	57	70	62	68	55	63	79	80	101	114

TABLE 17. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

REFLECTIVITY MEASUREMENTS*												
SAMPLE NUMBER	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Thermoplastic-White, Cold Curing												
78	53	23	32	37	29	41	35	61	70	71	63	66
	89	26	32	36	29	39	30	38	42	40	39	44
Thermoplastic-Yellow, Alkyd												
73	42	18	34	49	38	56	45	104	115	120	112	122
	40	27	43	49	48	57	45	57	67	60	67	90
Thermoplastic-Yellow, Hydrocarbon												
62	55	27	34	45	43	69	65	96	108	94	86	95
	62	31	31	40	35	48	38	51	63	61	69	86

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurement.

TABLE 18. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6**	87	96	87	86	84	82	76	69	75	72	66	89
	109	120	106	107	90	84	103	91	87	80	78	89
33	108	95	74	79	86	83	94	73	78	78	76	82
	138	121	112	113	120	112	130	98	93	87	92	94
35	105	103	77	79	84	76	74	66	72	74	70	82
	137	124	112	110	124	111	120	101	91	86	85	85
37	116	105	82	91	94	89	85	70	77	79	75	88
	143	123	112	110	113	97	122	100	96	88	95	88
64	116	110	76	97	68	64	77	60	60	73	57	76
	131	131	126	119	115	103	113	96	104	95	90	100
81	118	109	82	78	85	95	101	83	89	79	77	85
	148	133	121	114	127	118	140	108	96	106	92	91
84	113	114	80	91	92	82	62	73	74	80	70	85
	121	119	113	113	102	84	120	105	93	92	75	94
87	99	94	71	79	82	87	79	61	65	79	62	84
	154	137	122	120	120	105	151	117	88	112	94	107
88	112	104	82	85	97	101	91	76	79	81	73	90
	148	132	134	125	110	104	128	120	105	112	115	108
91	105	97	78	76	89	93	101	72	76	69	69	85
	159	140	132	124	134	130	146	114	98	108	99	103
92	125	117	98	103	111	105	112	100	104	106	97	109
	152	128	118	118	130	107	122	114	115	107	106	109
93	114	102	85	87	92	87	77	72	78	78	77	89
	132	118	102	102	104	94	119	99	92	89	90	92
98	109	106	85	83	91	80	82	73	75	76	76	77
	147	127	113	109	116	113	122	101	94	95	92	96
103	92	102	66	66	82	76	65	59	60	78	66	73
	121	104	103	95	96	92	105	89	79	86	83	81
Paint-Solvent, White (120 sec)												
66	107	118	70	100	88	86	108	67	82	83	78	76
	113	113	101	110	93	101	104	95	95	92	91	95

TABLE 18. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (3 min or more)												
11	103	92	78	89	90	90	67	56	72	73	63	80
	117	120	104	105	100	114	110	89	88	84	83	86
94	113	114	86	89	92	92	105	79	81	80	81	98
	156	131	131	120	124	110	138	118	110	111	98	109
95	102	101	80	88	82	80	85	81	77	76	66	88
	142	124	11	112	108	126	140	110	102	95	96	97
Paint-Solvent, Yellow (60 sec)												
7	86	96	72	77	72	69	56	48	54	52	52	64
	109	120	104	99	84	88	98	71	69	66	65	68
8	80	95	78	80	68	68	82	60	56	62	57	66
	109	118	105	101	94	88	95	74	72	73	74	72
34	129	102	88	103	85	75	88	79	80	77	85	76
	130	124	112	109	106	99	105	90	91	86	91	81
36	87	98	73	80	75	73	86	67	61	55	57	72
	121	127	102	104	103	96	109	86	92	83	83	79
38	126	97	80	82	77	60	72	55	70	67	62	72
	145	140	116	114	106	97	112	92	82	90	91	81
65	96	118	78	89	87	80	95	63	90	96	69	82
	113	120	102	103	101	99	99	91	97	83	78	83
80	114	112	83	85	96	89	78	69	74	73	67	79
	137	117	105	107	112	108	116	88	97	88	76	85
85	87	88	77	79	71	69	66	64	60	64	63	83
	139	140	123	121	107	110	97	105	104	84	92	90
86	100	96	76	74	83	90	63	58	64	64	62	81
	129	116	110	105	99	97	128	100	102	98	80	93
89	82	87	62	72	72	88	61	55	56	55	53	74
	128	119	105	102	110	108	128	96	89	92	77	79
99	99	101	76	74	85	82	84	67	71	68	64	79
	134	114	105	102	110	97	114	90	90	86	79	82
102	117	96	80	76	83	72	73	67	70	72	69	76
	180	145	138	132	142	138	136	105	104	103	97	95

TABLE 18. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENTS*											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (120 sec)												
67	121	101	96	120	89	86	105	75	83	75	83	74
	109	110	104	108	99	94	112	88	86	90	85	86
Paint-Solvent, Yellow (3 min or more)												
12	124	102	73	82	69	70	72	67	70	72	62	73
	109	113	96	97	89	85	100	75	71	74	75	74
Paint-Water, White (60 sec)												
5	98	104	73	71	74	75	70	49	56	57	65	80
	120	126	116	114	116	122	127	103	99	97	93	94
39	97	104	81	105	97	91	64	55	71	87	76	76
	118	126	116	116	119	114	126	110	121	106	90	103
42	103	115	81	99	86	92	59	46	66	77	66	87
	154	162	131	135	128	117	155	118	119	118	109	96
45	111	103	82	84	88	87	76	55	72	76	69	84
	113	121	106	104	104	112	121	97	94	96	83	88
48	101	95	73	85	72	60	64	46	56	60	53	73
	122	112	107	98	96	88	107	94	87	95	86	100
61	110	102	93	98	94	98	83	72	80	86	84	99
	143	147	142	140	130	123	124	123	106	106	115	120
83	86	96	64	70	100	84	52	47	54	64	48	62
	126	101	104	101	111	97	109	98	102	93	93	94
96	103	97	78	81	86	82	100	68	72	70	66	89
	135	119	105	107	93	86	110	96	98	92	94	95
Paint-Water, White (120 sec)												
68	94	93	69	89	68	81	84	56	63	59	60	71
	117	117	110	109	109	100	115	44	96	95	96	90
Paint-Water, Yellow (60 sec)												
9	83	87	67	77	70	95	83	61	72	82	63	77
	122	111	102	104	98	98	110	92	94	89	87	82
10	89	81	66	73	66	57	67	48	55	67	54	62
	111	94	92	89	85	81	99	78	80	79	69	79
40	98	103	89	89	86	92	72	58	83	71	67	77
	114	122	115	111	109	110	115	101	91	99	88	94
41	85	83	69	75	72	75	57	40	52	117	57	70
	99	105	95	96	93	98	104	89	85	87	88	80

TABLE 18. Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

REFLECTIVITY MEASUREMENTS*												
SAMPLE NUMBER	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
43	89 100	87 104	62 95	69 96	73 91	78 98	54 106	40 84	52 86	54 84	58 83	62 81
44	78 119	78 115	62 104	67 106	69 99	76 105	77 113	43 97	53 86	46 93	52 76	67 101
46	86 116	81 119	73 113	77 108	63 106	70 105	73 112	51 101	49 96	60 90	61 87	70 83
47	99 98	96 104	84 92	85 99	80 81	84 105	79 113	62 82	63 83	77 77	80 76	84 83
57	78 88	83 95	74 85	80 93	70 85	72 88	63 107	55 80	70 82	62 73	54 72	61 66
60	89 111	74 118	60 104	63 105	52 92	54 109	61 114	34 95	55 94	45 95	44 89	61 94
63	87 118	94 129	73 113	85 112	82 107	88 117	86 125	58 97	72 97	80 93	71 92	83 96
82	86 109	86 98	62 88	65 87	68 87	65 80	63 101	49 85	56 86	50 86	44 76	61 84
97	80 107	86 96	57 81	69 83	69 78	63 87	65 89	49 74	54 79	59 72	48 64	69 73
Paint-Water, Yellow (120 sec)												
69	81 101	76 102	60 106	76 99	72 90	68 90	72 96	45 94	54 80	53 86	46 70	62 82
Paint-Polyester, White												
70	116 92	94 94	92 84	99 85	74 70	70 69	84 88	57 77	62 73	68 70	71 69	77 74
Paint-Polyester, Yellow												
71	103 83	92 97	62 78	66 79	56 74	57 80	71 93	49 65	56 63	48 64	41 60	55 63
Thermoplastic-White, Alkyd												
72	126 136	87 100	97 96	112 108	140 119	140 185	205 128	159 131	179 119	213 134	194 141	233 166
Thermoplastic-White, Cold Curing												
78	120 160	200 250	332 261	91 73	75 143	144 196	138 204	109 156	102 124	96 55	77 71	292 112

TABLE 18.

Reflectivity Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

REFLECTIVITY MEASUREMENTS*												
SAMPLE NUMBER	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Thermoplastic-Yellow, Alkyd												
73	120	82	79	93	86	113	167	108	119	115	106	135
	155	99	88	109	106	119	146	103	100	105	133	125
Thermoplastic-Yellow, Hydrocarbon												
62	211	193	149	131	119	126	103	76	80	82	83	167
	210	216	186	190	191	146	155	99	76	76	83	103

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurement.

Table 19. Reflectivity Data for Removable Tape Lines
on Asphalt Pavement
(Kentucky)

REFLECTIVITY MEASUREMENT								
Sample Number	JUNE 1990	JULY 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	DEC 1990	
Removable Tape, White								
4 T-LW*	587	285	237	214	125	128	113	
T-C**	583	475	342	488	267	242	324	
L***	588	488	430	385	369	368	384	
17 T-LW	918	739	634	607	382	220	212	
T-C	899	787	575	458	384	224	197	
L	928	905	894	879	890	828	789	
78 T-LW	517	--	--	--	--	--	--	
T-C	485	--	--	--	--	--	--	
L	587	--	--	--	--	--	--	
Removable Tape, Yellow								
3 T-LW	802	320	228	222	172	156	91	
T-C	791	479	472	508	458	597	529	
L	808	854	798	779	808	820	828	
18 T-LW	692	675	620	508	430	331	230	
T-C	620	643	682	634	545	517	412	
L	657	712	715	703	713	708	725	
77 T-LW	339	280	240	219	180	194	163	
T-C	387	249	220	180	173	178	137	
L	386	--	--	--	--	--	--	

Table 21. Reflectivity Data for Removable Tape Lines
on Portland Cement Concrete Pavement
(Kentucky)

REFLECTIVITY MEASUREMENT								
Sample Number	JUNE 1990	JULY 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	DEC 1990	
Removable Tape, White								
4 T-LW*	284	70	52	40	38	43	45	
T-C**	316	224	198	144	142	118	102	
L***	305	271	241	245	249	261	429	
17 T-LW	759	699	494	300	228	171	128	
T-C	786	850	834	758	707	613	332	
L	773	938	945	945	968	944	930	
78 T-LW	428	--	--	--	--	--	--	
T-C	437	--	--	--	--	--	--	
L	--	--	--	--	--	--	--	
Removable Tape, Yellow								
3 T-LW	885	254	188	130	99	85	77	
T-C	832	828	777	682	718	578	691	
L	785	848	809	795	840	818	832	
18 T-LW	543	735	559	438	391	282	232	
T-C	540	730	730	676	665	654	629	
L	535	723	672	669	692	718	668	
77 T-LW	266	254	216	187	151	109	100	
T-C	281	244	231	216	218	233	225	
L	--	--	--	--	--	--	--	

Table 20. Reflectivity Data for Removable Tape Lines
on Asphalt Pavement
(Alabama)

REFLECTIVITY MEASUREMENT								
Sample Number	MAY 1990	JUNE 1990	JULY 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	
Removable Tape, White								
4 T-LW*	208	174	133	138	140	164	180	
T-C**	481	428	387	358	373	371	360	
L***	501	452	370	352	497	487	508	
17 T-LW	693	613	474	416	384	356	220	
T-C	694	645	588	603	657	654	545	
L	609	644	493	518	692	678	719	
78 T-LW	438	417	338	319	--	--	--	
T-C	453	449	402	354	--	--	--	
L	433	458	393	345	390	373	455	
Removable Tape, Yellow								
3 T-LW	120	110	83	80	74	97	85	
T-C	187	198	177	150	145	183	135	
L	155	187	142	138	148	138	182	
18 T-LW	683	558	413	385	341	356	316	
T-C	671	587	513	503	523	519	535	
L	581	552	486	449	550	548	560	
77 T-LW	--	--	--	--	--	--	--	
T-C	--	--	--	--	--	--	--	
L	378	399	345	317	340	325	355	

Table 22. Reflectivity Data for Removable Tape Lines
on Portland Cement Concrete Pavement
(Alabama)

REFLECTIVITY MEASUREMENT								
Sample Number	MAY 1990	JUNE 1990	JULY 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	
Removable Tape, White								
4 T-LW*	252	185	191	185	178	212	259	
T-C**	526	428	427	424	478	479	578	
L***	721	711	687	672	810	601	580	
17 T-LW	785	640	553	159	254	234	172	
T-C	805	727	677	672	687	617	577	
L	760	738	699	730	795	790	828	
78 T-LW	422	397	360	168	--	--	--	
T-C	474	428	407	379	--	--	--	
L	452	433	405	413	468	470	480	
Removable Tape, Yellow								
3 T-LW	111	109	111	112	105	83	77	
T-C	182	182	188	183	183	191	179	
L	334	342	332	320	286	302	405	
18 T-LW	644	577	558	486	438	436	389	
T-C	652	653	665	633	607	600	569	
L	542	574	591	558	584	560	626	
77 T-LW	324	308	269	218	229	235	--	
T-C	370	342	317	309	333	320	--	
L	394	394	370	382	419	400	422	

* Transverse stripe - left wheelpath.

** Transverse stripe - centerline.

*** Longitudinal stripe - centerline.

TABLE 23. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6	10.0	10.0	10.0	9.8	10.0	10.0	10.0	9.0	6.9	6.6	6.7	5.6
33	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.4	8.7	8.4	8.3	8.1
35	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	8.9	8.7	8.2	8.2
37	10.0	10.0	10.0	8.8	10.0	10.0	10.0	9.4	8.3	8.1	8.0	7.5
64	10.0	10.0	10.0	10.0	10.0	10.0	9.9	8.7	7.5	7.2	6.7	5.9
81	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.9	7.7	7.2	7.2	6.7
84	10.0	10.0	10.0	9.8	10.0	10.0	10.0	8.9	7.9	7.6	7.8	6.9
87	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.7	8.7	8.6	8.4
88	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.5	8.3	8.5	8.1
98	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	8.3	7.7	7.1	6.9
103	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.0	8.1	7.5	7.7	7.0
Paint-Solvent, White (120 sec)												
66	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.2	8.7	8.3	8.5	8.2
Paint-Solvent, White (3 min or more)												
11	10.0	10.0	9.9	9.9	10.0	10.0	9.8	9.1	7.5	7.0	6.9	6.3
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.2	7.6	7.3	7.5	6.8
8	10.0	10.0	10.0	9.6	10.0	10.0	9.9	8.9	7.4	6.7	6.9	5.9
34	10.0	10.0	10.0	9.4	10.0	10.0	10.0	9.3	8.5	8.5	8.3	8.0
36	10.0	10.0	10.0	9.9	10.0	10.0	9.7	9.7	8.9	8.3	8.3	8.1
38	10.0	10.0	10.0	8.3	10.0	10.0	10.0	9.3	8.7	8.3	8.3	8.2
65	10.0	10.0	10.0	9.9	10.0	9.9	9.5	9.0	7.9	7.5	7.2	6.7
80	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.7	8.9	8.5	8.5	7.9
85	10.0	10.0	10.0	9.9	10.0	10.0	9.7	9.0	8.2	7.9	7.8	7.0
86	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.9	8.9	8.7	8.3

TABLE 23. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
89	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.2	8.3	8.3	8.0	7.9
99	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.3	8.3	7.9	7.3
102	10.0	10.0	10.0	9.8	10.0	9.7	9.4	9.0	7.8	7.6	7.6	7.1
Paint-Solvent, Yellow (120 sec)												
67	10.0	10.0	10.0	9.6	10.0	10.0	9.7	9.3	8.7	8.3	8.3	8.1
Paint-Solvent, Yellow (3 min or more)												
12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.2	8.4	8.2	7.9	7.5
Paint-Water, White (60 sec)												
5	7.6	7.7	7.8	10.0	7.4	7.7	6.9	6.8	5.9	5.8	6.0	5.6
39	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.3	8.7	8.5	8.7	8.6
42	10.0	10.0	10.0	9.9	10.0	10.0	10.0	9.5	9.0	9.0	8.9	8.9
45	10.0	10.0	10.0	9.6	10.0	10.0	10.0	9.7	9.1	9.0	9.0	8.9
48	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.0	8.7	8.7	8.3
61	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.8	8.5	8.7	8.5
83	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.9	8.9	8.9	8.7
96	10.0	9.9	9.9	10.0	9.9	9.4	9.1	8.4	8.1	7.9	7.5	7.4
101	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	8.8	8.9	8.9	8.5
Paint-Water, White (120 sec)												
68	10.0	10.0	9.8	10.0	10.0	9.5	9.9	9.4	8.5	8.3	8.6	8.4
Paint-Water, Yellow (60 sec)												
9	9.0	8.7	8.8	9.9	8.6	8.3	8.1	7.6	7.3	7.0	6.8	6.5
10	5.3	5.4	5.4	9.9	5.3	5.1	4.9	4.6	4.2	4.0	4.3	4.2
40	10.0	10.0	10.0	8.9	10.0	10.0	9.8	9.2	9.0	13.3	8.7	8.8
41	9.5	9.6	9.7	9.9	9.3	9.3	9.3	9.1	8.4	8.1	8.5	8.3
43	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.8	8.5	8.7	8.3
44	10.0	10.0	10.0	8.7	10.0	10.0	10.0	9.7	9.0	9.0	8.9	8.9
46	10.0	10.0	10.0	9.9	10.0	10.0	10.0	9.7	9.0	9.0	8.9	8.9

TABLE 23. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec) (continued)												
47	10.0	10.0	10.0	9.9	10.0	10.0	10.0	9.7	9.0	8.7	8.7	8.3
57	10.0	10.0	10.0	9.7	10.0	9.9	9.8	9.3	8.9	8.7	8.7	8.5
60	7.3	7.4	7.9	10.0	7.4	7.4	7.5	6.9	6.8	6.7	6.7	6.2
63	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.0	8.9	8.7	8.9
82	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.5	8.9	8.9	8.7	8.7
97	10.0	10.0	10.0	10.0	10.0	9.9	10.0	9.2	8.3	8.3	8.3	7.7
100	10.0	10.0	10.0	9.9	10.0	10.0	10.0	9.7	9.0	9.0	9.0	8.9
Paint-Water, Yellow (120 sec)												
69 Paint-Polyester, White	9.2	9.5	9.3	10.0	9.5	9.1	9.1	8.2	7.4	7.1	6.8	6.5
70 Paint-Polyester, Yellow	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.3	9.6	9.5	9.3
71 Thermoplastic-White, Alkyd	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.7	9.0	9.0	9.0	9.0
72 Thermoplastic-White, Cold Curing	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	8.8	9.0	9.0	9.0
78 Thermoplastic-Yellow, Alkyd	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	9.3	9.7	8.8
73 Thermoplastic-Yellow, Hydrocarbon	10.0	10.0	10.0	10.0	9.7	9.7	9.6	9.7	8.8	9.0	9.0	9.0
62 Permanent Tape, White	10.0	10.0	10.0	10.0	9.7	9.7	9.7	9.5	8.8	9.2	9.0	9.3
1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	10.0	10.0
16	10.0	10.0	10.0	9.7	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
19	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
20	10.0	10.0	10.0	9.8	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
27	10.0	10.0	10.0	10.0	9.7	9.7	9.3	9.9	9.5	9.5	9.2	8.5
30	10.0	10.0	10.0	9.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

TABLE 23. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, White(continued)												
32	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
58	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
75	10.0	10.0	10.0	9.8	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Temporary Tape, White												
14	10.0	10.0	9.9	10.0	9.7	9.3	9.2	10.0	9.7	9.3	9.0	8.2
Permanent Tape, Yellow												
2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
21	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
28	10.0	10.0	9.7	10.0	9.7	9.7	9.0	9.0	8.8	8.7	8.3	7.0
29	10.0	10.0	10.0	9.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
59	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
74	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Temporary Tape, Yellow												
13	10.0	10.0	9.7	10.0	9.7	9.0	9.1	9.0	8.8	8.7	8.3	7.4

TABLE 24. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Alabama)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6	9.4	9.4	9.4	9.6	9.2	8.6	8.3	8.3	7.0	6.9	7.3	7.2
33	9.8	9.7	9.4	9.5	9.1	8.5	7.8	7.9	6.3	6.4	6.8	6.2
35	10.0	10.0	9.8	9.9	9.8	8.9	8.2	8.5	7.2	7.8	7.4	7.3
37	9.9	10.0	9.8	9.8	9.5	8.9	8.5	8.6	7.5	7.5	7.5	7.4
64	9.8	9.5	9.5	9.8	9.1	8.2	7.3	7.7	6.5	6.3	6.0	6.1
81	9.7	9.3	9.2	9.5	9.1	8.1	8.0	7.9	6.5	6.8	6.5	6.4
84	9.8	9.9	9.7	9.9	9.1	8.3	7.8	7.8	6.7	6.5	6.4	6.5
87	10.0	10.0	10.0	10.0	10.0	9.6	8.8	9.3	7.7	8.0	7.9	7.1
88	10.0	10.0	10.0	10.0	9.9	9.8	9.0	9.3	8.3	8.5	8.3	7.7
91	9.9	9.6	9.3	9.4	9.0	8.3	7.7	7.8	6.2	5.9	5.9	5.1
92	9.8	10.0	9.7	9.9	9.4	9.1	7.9	8.5	6.9	7.0	7.0	6.5
93	10.0	10.0	10.0	10.0	10.0	9.6	8.8	9.0	7.3	7.0	7.9	7.1
98	10.0	10.0	10.0	10.0	10.0	9.5	8.8	8.9	7.6	7.5	7.5	7.2
103	10.0	10.0	9.9	10.0	9.7	9.3	8.3	9.2	7.8	7.7	8.0	7.3
Paint-Solvent, White (120 sec)												
66	9.8	10.0	9.9	9.9	10.0	9.2	8.3	8.5	7.3	6.9	7.2	6.9
Paint-Solvent, White (3 min or more)												
11	9.5	9.5	9.5	9.6	9.2	8.7	8.1	8.3	6.5	6.8	7.0	6.9
94	9.9	10.0	10.0	10.0	9.6	9.3	8.7	8.8	7.6	7.3	7.5	7.2
95	10.0	9.8	9.9	10.0	9.8	9.6	9.0	9.3	8.2	8.3	8.4	7.5
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	10.0	10.0	10.0	9.7	9.2	9.3	8.4	8.2	8.5	7.8
8	10.0	10.0	10.0	10.0	10.0	9.6	8.9	9.3	13.1	8.3	8.3	7.7
34	9.8	10.0	9.9	9.9	9.6	8.9	8.7	9.0	8.0	7.7	7.5	7.4
36	10.0	10.0	10.0	10.0	10.0	9.4	8.8	9.3	8.4	8.4	8.3	7.8

TABLE 24. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	9.7	9.6	9.8	9.5	9.3	8.6	9.3	7.7	8.0	8.2	7.5
65	9.8	10.0	9.9	9.9	9.8	9.0	8.6	8.8	7.5	7.5	7.2	7.3
80	10.0	10.0	9.9	10.0	10.0	9.1	8.9	9.3	7.9	8.0	8.0	7.7
85	9.8	9.9	9.8	9.8	9.7	9.1	8.8	9.1	8.2	7.8	8.0	7.9
86	10.0	10.0	10.0	10.0	10.0	9.8	9.2	9.3	8.5	8.6	8.8	7.9
89	10.0	10.0	10.0	10.0	10.0	9.8	9.2	9.3	8.4	8.6	8.8	8.0
99	10.0	10.0	10.0	10.0	10.0	9.6	9.2	9.3	8.5	8.2	8.3	7.5
102	9.8	9.4	9.2	9.0	8.8	8.1	7.1	7.7	6.2	5.9	6.1	5.3
Paint-Solvent, Yellow (120 sec)												
67	9.9	10.0	10.0	9.9	10.0	9.8	9.1	9.4	8.3	8.4	8.4	8.3
Paint-Solvent, Yellow (3 min or more)												
12	9.8	9.8	9.7	9.9	9.7	9.0	8.9	8.9	7.7	7.8	8.0	7.2
Paint-Water, White (60 sec)												
5	8.3	8.3	8.0	7.8	7.4	7.1	7.0	7.0	5.6	5.5	5.6	5.9
39	9.0	8.8	8.8	9.0	8.6	8.0	7.7	7.9	6.8	6.4	7.0	6.6
42	9.5	9.5	9.5	9.8	9.5	9.1	8.8	8.8	7.6	7.7	7.5	7.4
45	10.0	10.0	10.0	9.9	10.0	9.8	9.2	9.3	7.8	8.4	8.0	7.9
48	10.0	10.0	10.0	9.9	10.0	9.4	8.8	9.3	7.6	7.9	8.3	7.9
61	10.0	10.0	10.0	9.9	9.9	9.4	8.8	9.2	7.7	8.2	8.3	7.9
83	8.8	9.0	8.4	8.7	8.4	8.1	7.8	8.1	6.5	6.9	6.8	6.7
96	8.6	8.5	8.2	8.3	8.0	7.4	7.1	7.0	5.9	5.6	5.7	5.3
Paint-Water, White (120 sec)												
68	7.1	7.4	7.2	7.1	6.9	6.2	6.3	6.6	5.2	4.9	5.3	5.2
Paint-Water, Yellow (60 sec)												
9	8.3	8.5	8.3	7.9	7.6	7.3	7.1	7.0	6.0	6.0	6.4	6.1
10	6.6	7.2	6.5	6.3	5.6	5.8	5.5	6.1	4.4	4.6	4.9	4.6
40	8.1	8.4	8.1	8.2	8.3	7.9	7.6	7.7	6.2	6.1	6.1	5.7

TABLE 24. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
41	8.3	8.2	8.1	7.9	8.0	7.5	7.4	7.5	6.6	6.3	6.3	6.3
43	8.8	8.8	8.6	8.4	8.3	7.8	7.6	8.3	6.9	6.9	7.3	7.0
44	9.4	9.6	9.6	9.6	9.5	9.2	8.8	8.9	8.0	8.2	7.4	7.5
46	10.0	10.0	10.0	10.0	10.0	9.8	9.0	9.3	8.5	8.7	8.3	8.4
47	8.4	8.3	8.4	8.3	8.1	7.4	7.6	7.8	6.6	6.3	6.7	6.4
57	7.5	7.7	7.4	7.4	7.0	6.7	6.6	6.8	5.2	5.3	5.5	4.8
60	5.5	5.6	5.4	5.3	5.5	4.8	5.1	5.3	4.5	4.4	4.6	4.5
63	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.2	8.3	9.2	9.2	8.7
82	3.9	4.3	4.2	4.5	3.8	3.8	4.4	4.4	3.6	3.5	3.6	3.3
97	7.5	6.8	6.8	7.0	6.8	6.2	6.2	5.9	5.3	4.6	4.9	4.7
Paint-Water, Yellow (120 sec)												
69	6.9	7.3	7.0	7.3	6.7	6.0	6.1	6.3	5.4	5.4	5.5	5.4
Paint-Polyester, White												
70	10.0	10.0	9.7	9.7	9.3	8.7	8.2	8.3	7.1	7.4	7.9	6.9
Paint-Polyester, Yellow												
71	10.0	10.0	9.9	10.0	9.7	9.6	9.0	9.3	8.6	8.7	8.3	7.5
Thermoplastic-White, Alkyd												
72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.2	10.0	9.7
Thermoplastic-White, Cold Curing												
78	10.0	10.0	10.0	10.0	10.0	10.0	9.8	10.0	9.7	9.9	9.9	9.4
Thermoplastic-Yellow, Alkyd												
73	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	9.5
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	9.5
Permanent Tape, White												
1	10.0	10.0	10.0	10.0	10.0	9.7	9.8	9.5	8.9	9.7	9.7	8.5
16	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	9.9	9.7
19	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	9.3

TABLE 24. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Permanent Tape, White(continued)												
20	10.0	10.0	10.0	10.0	10.0	9.5	9.4	9.8	9.5	10.0	10.0	9.1
27	10.0	10.0	9.8	10.0	10.0	10.0	10.0	9.0	8.7	9.5	9.5	8.5
30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	9.2
32	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	9.6
58	10.0	8.8	5.0	5.0	5.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.2	10.0	10.0	9.9
Temporary Tape, White												
14	10.0	10.0	9.9	10.0	9.9	9.8	9.7	9.0	8.7	9.3	9.7	8.7
Permanent Tape, Yellow												
2	10.0	10.0	9.9	10.0	10.0	9.8	10.0	9.8	8.9	9.9	9.7	8.7
15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.9	9.7	9.7
21	10.0	10.0	10.0	10.0	10.0	9.9	9.9	9.9	9.5	10.0	10.0	9.3
28	10.0	10.0	9.7	9.8	9.4	9.8	9.7	8.8	7.9	9.4	8.7	8.2
29	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	9.5
31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	9.9	9.7
59	10.0	10.0	10.0	10.0	10.0	9.7	4.9	4.8	9.3	0.0	0.0	0.0
74	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	9.9
Temporary Tape, Yellow												
13	10.0	10.0	9.9	9.8	9.5	9.5	9.7	8.7	8.0	9.4	8.7	8.3

TABLE 25. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	5.8	7.3	4.9	5.4
33	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.6	5.0	6.5	5.1	4.8
35	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	5.6	8.0	7.4	6.9
37	10.0	10.0	9.7	10.0	10.0	10.0	10.0	9.3	5.7	8.0	6.6	6.3
64	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.5	5.6	7.9	6.7	6.6
81	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.8	5.2	7.4	5.8	5.9
84	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.1	5.6	7.9	6.9	6.7
87	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	5.9	8.7	8.4	8.3
88	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.7	5.3	7.6	7.0	7.4
91	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.9	5.3	7.3	5.9	5.7
92	10.0	10.0	10.0	10.0	10.0	10.0	10.0	7.9	5.0	7.2	6.6	6.3
93	10.0	10.0	10.0	10.0	10.0	9.9	9.9	8.0	4.8	7.1	6.8	6.8
98	10.0	10.0	9.1	10.0	10.0	9.9	9.7	8.5	4.9	7.1	4.7	5.3
103	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	5.3	7.5	7.2	6.5
Paint-Solvent, White (120 sec)												
66	10.0	9.8	10.0	10.0	10.0	9.6	9.7	9.2	5.5	7.9	7.2	7.0
Paint-Solvent, White (3 min or more)												
11	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	5.5	7.3	6.5	5.9
94	10.0	10.0	10.0	10.0	10.0	9.9	9.8	8.2	4.9	6.8	4.6	4.9
95	10.0	10.0	10.0	10.0	10.0	9.9	9.6	7.6	4.7	7.0	6.5	6.4
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	9.9	10.0	9.9	9.9	9.7	8.9	5.1	7.4	6.5	6.6
8	10.0	10.0	10.0	10.0	10.0	9.7	9.2	8.5	4.4	7.1	5.5	5.3
34	9.7	9.7	9.4	10.0	9.4	9.4	9.3	9.0	5.8	8.2	7.4	7.7
36	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.7	6.0	8.9	8.5	8.4

TABLE 25. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	10.0	9.9	10.0	10.0	10.0	9.4	9.3	6.0	8.6	7.9	7.9
65	10.0	10.0	9.7	10.0	9.7	9.9	9.9	9.3	5.9	8.5	7.9	7.9
80	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.3	5.8	8.5	7.3	7.6
85	10.0	10.0	9.9	10.0	9.6	9.7	9.6	9.1	5.6	7.8	7.4	7.4
86	10.0	10.0	9.9	10.0	10.0	9.8	9.7	8.3	5.4	7.6	7.1	7.2
89	10.0	10.0	10.0	10.0	10.0	9.7	9.3	8.2	5.3	7.6	6.6	6.9
99	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.0	5.8	8.1	7.2	7.3
102	10.0	9.9	9.7	10.0	9.7	9.4	9.5	8.9	5.3	8.3	6.5	6.5
Paint-Solvent, Yellow (120 sec)												
67	10.0	10.0	10.0	10.0	10.0	10.0	9.9	8.6	5.5	7.7	7.0	6.6
Paint-Solvent, Yellow (3 min or more)												
12	10.0	10.0	10.0	10.0	9.9	9.7	9.3	8.6	5.5	7.7	7.0	7.2
Paint-Water, White (60 sec)												
5	9.3	9.7	9.3	10.0	8.8	8.4	8.7	8.0	4.7	6.3	4.2	4.5
39	8.1	7.7	7.8	10.0	7.6	7.3	6.6	5.7	3.4	4.6	4.4	4.4
42	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.7	5.1	7.3	7.0	7.0
45	10.0	10.0	10.0	10.0	9.7	9.6	9.3	7.9	4.8	6.5	6.4	6.3
48	10.0	10.0	10.0	10.0	9.9	9.9	9.7	8.5	4.8	6.1	5.9	5.9
61	10.0	9.9	9.6	10.0	9.2	8.6	8.3	7.8	7.1	6.9	6.4	6.3
83	9.3	9.8	9.5	10.0	9.4	9.1	9.2	8.5	7.9	7.5	7.2	6.7
96	9.9	9.9	9.7	10.0	9.6	9.7	9.4	8.4	6.5	7.4	6.9	7.0
101	10.0	10.0	10.0	10.0	10.0	9.9	9.7	8.4	8.0	7.9	7.3	7.6
Paint-Water, White (120 sec)												
68	8.4	7.9	8.2	10.0	7.5	7.1	6.6	5.8	4.5	4.6	4.4	3.8
Paint-Water, Yellow (60 sec)												
9	9.1	8.6	8.2	10.0	8.2	7.9	7.5	6.9	6.0	5.7	5.3	5.2
10	8.6	8.2	8.0	10.0	8.1	7.8	7.1	6.0	4.5	5.0	4.5	4.1

TABLE 25. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec) (continued)												
40	8.8	8.3	8.3	10.0	7.7	7.1	6.8	5.9	5.3	5.1	4.8	4.3
41	8.6	7.3	7.0	10.0	6.1	5.9	5.5	4.8	3.1	3.8	3.5	3.1
43	9.0	9.2	8.9	10.0	8.9	8.9	8.9	8.2	7.4	7.1	7.1	7.1
44	9.3	9.8	9.7	10.0	9.5	9.3	9.3	8.6	8.0	7.5	7.3	7.4
46	10.0	10.0	9.9	10.0	9.7	9.5	9.3	8.6	7.9	7.3	7.1	7.2
47	9.2	8.6	8.8	10.0	8.5	8.0	7.8	6.1	5.6	5.1	4.8	4.6
57	8.1	7.8	7.4	10.0	7.2	7.1	7.0	5.9	5.0	5.1	4.9	4.7
60	6.3	5.8	5.8	10.0	5.9	5.8	5.7	5.1	4.4	5.0	4.7	4.5
63	10.0	9.7	9.6	10.0	9.3	9.2	9.1	8.5	7.3	7.4	7.0	6.7
82	10.0	10.0	9.7	10.0	9.2	8.3	7.9	7.4	6.6	6.5	6.1	6.1
97	7.0	6.0	6.1	10.0	4.8	4.4	4.1	4.0	3.1	3.2	2.9	2.9
100	10.0	10.0	9.7	10.0	9.1	8.9	8.3	7.6	7.0	7.0	6.5	6.8
Paint-Water, Yellow (120 sec)												
69	8.6	8.3	8.0	10.0	7.8	7.2	6.5	5.7	5.0	5.0	5.0	4.4
Paint-Polyester, White												
70	10.0	10.0	9.9	10.0	9.7	9.7	9.6	8.4	7.4	7.4	6.8	6.8
Paint-Polyester, Yellow												
71	10.0	9.8	9.7	10.0	9.6	9.1	9.0	8.5	7.8	7.9	7.8	7.5
Thermoplastic-White, Alkyd												
72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.7	9.2	9.3
Thermoplastic-White, Cold Curing												
78	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0
Thermoplastic-Yellow, Alkyd												
73	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.2	8.9	8.9	8.5	8.3
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.7	9.5	9.5
Permanent Tape, White												
1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

TABLE 25. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, White(continued)												
16	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
19	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
20	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	10.0	10.0	10.0	10.0
27	10.0	10.0	10.0	10.0	9.9	15.2	9.2	9.2	8.5	9.5	9.3	9.0
30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
32	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
58	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Temporary Tape, White												
14	10.0	10.0	10.0	10.0	9.7	9.5	9.3	9.0	8.5	9.2	9.2	9.0
Permanent Tape, Yellow												
2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
21	10.0	9.9	9.9	10.0	9.6	9.8	9.4	9.8	10.0	9.5	9.8	9.8
28	10.0	10.0	10.0	10.0	9.5	9.1	9.2	8.3	8.0	8.3	7.5	7.7
29	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
59	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
74	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Temporary Tape, Yellow												
13	10.0	10.0	9.7	10.0	9.7	9.1	9.0	8.3	8.0	8.2	7.6	7.7

TABLE 26. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Alabama)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6	10.0	10.0	10.0	10.0	10.0	9.7	8.8	8.8	6.9	7.7	7.8	8.0
33	10.0	10.0	10.0	10.0	10.0	9.1	8.6	8.4	6.7	7.3	8.2	7.8
35	10.0	10.0	10.0	10.0	10.0	9.0	8.7	8.5	6.5	7.5	8.2	8.0
37	10.0	10.0	10.0	10.0	10.0	9.0	8.5	8.5	6.5	7.5	8.2	7.9
64	10.0	10.0	10.0	10.0	10.0	9.3	9.2	8.7	7.0	7.7	8.3	8.2
81	10.0	9.9	9.9	9.9	9.9	9.2	8.7	8.4	7.0	7.2	7.7	6.9
84	10.0	10.0	10.0	10.0	10.0	9.3	8.7	8.7	6.9	7.5	8.2	8.0
87	10.0	10.0	10.0	10.0	10.0	9.2	8.8	8.5	7.0	7.2	8.0	7.9
88	10.0	10.0	10.0	10.0	10.0	8.8	8.4	8.5	6.6	7.4	8.0	7.8
91	9.9	9.9	9.9	9.9	10.0	9.3	8.6	8.5	6.9	7.1	7.7	7.5
92	10.0	10.0	10.0	10.0	10.0	8.3	8.3	8.5	5.9	6.5	7.7	7.0
93	10.0	10.0	10.0	10.0	10.0	8.7	8.3	8.5	6.0	6.9	7.9	7.4
98	10.0	10.0	10.0	10.0	10.0	9.2	8.7	8.5	6.3	7.5	8.2	8.0
103	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.1	8.4	8.5	9.0	8.3
Paint-Solvent, White (120 sec)												
66	10.0	10.0	10.0	10.0	10.0	9.2	9.0	8.7	6.9	7.3	8.3	8.1
Paint-Solvent, White (3 min or more)												
11	10.0	10.0	10.0	10.0	10.0	9.0	8.3	8.5	6.2	6.9	7.5	7.5
94	10.0	10.0	10.0	10.0	10.0	9.2	8.7	8.5	6.4	7.5	8.2	7.9
95	10.0	10.0	10.0	10.0	10.0	9.2	8.8	8.5	7.0	7.7	8.3	8.3
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	10.0	10.0	10.0	9.8	9.5	9.1	8.0	8.6	9.0	8.7
8	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.0	8.0	8.6	9.0	8.7
34	10.0	10.0	10.0	10.0	10.0	9.7	9.2	9.2	7.5	8.6	8.8	8.5
36	10.0	10.0	10.0	10.0	10.0	9.8	9.2	9.3	8.4	8.7	9.0	9.0

TABLE 26. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.0	8.0	8.7	9.0	8.7
65	10.0	10.0	10.0	10.0	10.0	10.0	9.4	9.2	7.9	8.6	8.9	8.8
80	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.3	8.7	8.5	8.9	8.5
85	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.3	8.1	8.5	8.9	8.7
86	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.3	8.6	8.9	9.0	8.5
89	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.3	8.5	8.9	9.0	8.6
99	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.2	8.7	8.5	9.0	8.3
102	10.0	10.0	10.0	10.0	10.0	8.9	8.8	8.5	7.0	7.7	8.2	7.7
Paint-Solvent, Yellow (120 sec)												
67	10.0	10.0	10.0	10.0	10.0	9.8	9.5	9.3	8.4	8.9	9.0	8.9
Paint-Solvent, Yellow (3 min or more)												
12	10.0	10.0	10.0	10.0	10.0	9.6	9.1	8.6	7.3	8.0	8.5	7.9
Paint-Water, White (60 sec)												
5	8.8	8.6	8.5	8.5	8.6	7.6	7.0	6.7	5.2	6.1	6.6	6.3
39	9.9	9.9	9.9	10.0	9.9	8.8	8.4	8.2	6.2	7.5	14.3	7.6
42	10.0	10.0	10.0	9.8	10.0	8.8	8.4	8.2	6.3	7.7	7.7	7.5
45	10.0	10.0	10.0	10.0	10.0	9.5	8.8	8.5	7.2	8.2	8.2	8.5
48	10.0	10.0	10.0	10.0	10.0	9.0	8.4	8.1	6.6	7.9	8.1	7.7
61	10.0	10.0	10.0	10.0	10.0	9.3	8.7	9.0	7.0	8.0	8.5	7.8
83	7.4	6.9	6.5	5.7	6.6	6.0	6.3	4.7	4.3	4.8	5.4	5.2
96	10.0	10.0	10.0	9.8	10.0	9.1	8.3	7.9	6.3	6.4	7.1	6.5
Paint-Water, White (120 sec)												
68	8.5	8.1	8.2	7.8	7.7	7.7	7.1	6.7	5.5	6.0	6.4	6.1
Paint-Water, Yellow (60 sec)												
9	9.0	9.2	9.0	8.9	9.0	8.5	8.0	7.5	6.9	6.6	7.5	7.2
10	8.8	9.1	8.8	8.6	8.8	8.3	8.1	7.2	6.2	6.7	7.1	7.1
40	9.9	9.7	9.7	9.6	9.6	9.4	8.7	8.6	7.8	8.3	8.6	8.5

TABLE 26.

Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
41	8.7	8.5	8.8	8.3	8.0	8.2	7.3	7.0	6.1	6.4	6.9	6.6
43	9.5	9.7	9.7	9.6	9.5	9.2	8.8	8.4	7.7	8.1	8.6	8.0
44	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.3	7.9	9.0	9.0	8.9
46	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.3	7.9	8.9	9.0	8.9
47	10.0	9.8	9.9	10.0	10.0	9.6	9.1	9.0	7.8	8.8	8.9	8.8
57	8.3	7.7	7.9	7.7	7.6	7.5	6.5	6.1	5.2	5.6	6.4	5.8
60	7.1	7.4	7.0	6.8	6.5	6.6	6.4	5.9	5.3	5.9	6.5	5.9
63	10.0	10.0	10.0	10.0	10.0	9.8	9.5	9.3	8.5	9.0	9.0	8.9
82	5.6	5.2	5.2	4.5	5.1	5.3	5.0	4.3	4.3	4.5	4.6	4.4
97	6.9	6.7	7.0	6.4	6.6	6.7	6.3	4.8	4.7	5.4	5.6	5.3
Paint-Water, Yellow (120 sec)												
69	8.9	8.7	8.6	8.4	8.5	8.0	7.3	7.1	6.3	6.5	6.9	7.0
Paint-Polyester, White												
70	10.0	10.0	10.0	9.8	9.8	8.8	7.9	7.7	6.4	7.0	7.4	7.4
Paint-Polyester, Yellow												
71	10.0	9.9	9.8	9.5	9.4	8.9	7.9	8.2	6.9	7.3	7.7	7.5
Thermoplastic-White, Alkyd												
72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.7	9.4	9.4
Thermoplastic-White, Cold Curing												
78	10.0	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.6	9.8	9.8	9.8
Thermoplastic-Yellow, Alkyd												
73	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.7	9.7	9.4
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9
Permanent Tape, White												
1	10.0	10.0	10.0	10.0	10.0	9.7	9.8	9.2	8.5	9.7	9.5	9.5
16	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
19	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0

TABLE 26. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Permanent Tape, White(continued)												
20	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.2	10.0	10.0	10.0
27	10.0	10.0	10.0	10.0	9.8	9.7	9.3	8.7	7.9	8.7	9.5	8.9
30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	9.9	9.7
32	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
58	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	8.9	10.0	10.0	9.7
75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
Temporary Tape, White												
14	10.0	10.0	10.0	10.0	9.8	9.7	9.7	8.7	7.9	9.0	9.5	8.9
Permanent Tape, Yellow												
2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.9	10.0	9.7	9.9
15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
21	10.0	9.9	10.0	10.0	9.9	9.9	9.9	9.3	9.0	9.7	9.9	9.8
28	10.0	10.0	9.9	9.8	9.4	9.7	9.7	8.7	8.2	8.7	8.9	8.8
29	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
59	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.9	10.0	10.0	10.0
74	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	10.0
Temporary Tape, Yellow												
13	10.0	10.0	9.9	10.0	9.5	9.8	9.8	8.7	8.3	8.7	9.0	9.0

TABLE 27. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.0	9.3	9.0	8.0
33	10.0	10.0	9.2	10.0	10.0	9.7	7.2	9.3	8.8	8.3	8.3	8.3
35	10.0	10.0	10.0	8.6	10.0	10.0	9.7	9.7	9.2	9.2	9.2	8.5
37	10.0	10.0	10.0	5.3	10.0	9.7	9.7	9.2	8.5	8.2	8.0	7.3
64	10.0	10.0	9.8	10.0	10.0	10.0	9.7	9.0	8.3	8.7	8.7	7.3
81	10.0	10.0	10.0	9.7	10.0	9.7	9.7	9.0	8.3	8.5	8.0	7.7
84	10.0	10.0	10.0	9.7	10.0	10.0	9.7	9.0	8.7	8.7	9.0	8.3
87	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.8	8.4	8.8	8.4
88	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.5	8.5	8.8	8.5
98	10.0	10.0	10.0	10.0	10.0	10.0	9.7	8.7	8.5	8.3	8.3	7.7
103	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.3	9.0	8.3	8.3	8.0
Paint-Solvent, White (120 sec)												
66	10.0	10.0	10.0	9.7	10.0	10.0	9.7	9.0	8.3	8.7	8.7	8.0
Paint-Solvent, White (3 min or more)												
11	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.0	9.0	9.0	8.3
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	10.0	9.3	10.0	10.0	9.7	9.3	9.0	8.8	9.0	8.3
8	10.0	10.0	10.0	5.4	10.0	10.0	9.7	9.3	9.0	8.7	8.7	8.3
34	10.0	10.0	10.0	10.0	10.0	9.3	9.3	9.3	8.9	8.4	8.8	8.3
36	10.0	10.0	10.0	7.1	10.0	9.3	9.5	9.3	9.0	8.3	8.5	8.3
38	10.0	10.0	9.8	10.0	9.7	9.3	9.3	9.2	8.7	8.3	8.3	8.0
65	10.0	10.0	10.0	5.1	10.0	9.7	9.7	9.3	9.0	8.7	8.3	8.0
80	10.0	10.0	10.0	7.8	10.0	9.7	9.7	9.3	9.1	8.8	8.8	8.4
85	10.0	10.0	9.8	10.0	9.7	10.0	9.7	9.3	9.0	9.0	9.0	8.3
86	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.1	8.4	8.8	8.4

TABLE 27. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
89	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.2	8.5	8.8	8.5
99	10.0	10.0	10.0	10.0	9.7	9.7	9.3	9.3	8.7	8.3	8.5	8.0
102	10.0	9.3	9.3	10.0	9.3	9.3	9.3	8.8	7.8	7.5	8.2	7.5
Paint-Solvent, Yellow (120 sec)												
67	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.0	8.7	8.7	8.3
Paint-Solvent, Yellow (3 min or more)												
12	10.0	10.0	10.0	8.6	10.0	10.0	9.7	9.3	9.2	9.2	9.2	8.8
Paint-Water, White (60 sec)												
5	6.4	6.0	6.3	10.0	5.8	6.2	5.5	5.7	5.0	4.8	4.7	4.7
39	9.7	10.0	9.7	9.7	10.0	9.7	9.7	8.2	8.2	7.8	7.5	7.2
42	10.0	10.0	10.0	10.0	10.0	10.0	9.7	8.7	8.3	8.3	7.8	7.8
45	10.0	10.0	10.0	10.0	10.0	10.0	9.7	8.3	8.3	8.3	8.0	7.7
48	10.0	10.0	10.0	6.8	9.7	9.7	9.3	8.3	8.3	8.2	8.0	7.3
61	10.0	10.0	10.0	8.4	10.0	10.0	9.7	9.0	8.7	8.7	8.7	8.2
83	9.7	10.0	9.7	9.7	10.0	10.0	9.7	8.8	8.2	9.0	7.8	7.5
96	10.0	10.0	10.0	5.2	10.0	9.7	9.7	8.3	8.3	8.7	8.3	7.7
101	10.0	10.0	10.0	8.8	10.0	10.0	9.7	9.3	8.3	8.3	8.2	8.0
Paint-Water, White (120 sec)												
68	6.1	6.3	6.4	10.0	5.5	5.2	5.3	4.7	3.8	3.8	3.5	3.8
Paint-Water, Yellow (60 sec)												
9	10.0	10.0	9.7	10.0	9.3	9.3	9.0	7.8	7.3	7.0	7.7	6.8
10	7.5	7.3	7.2	10.0	6.8	7.0	6.7	6.2	5.3	5.8	5.7	5.3
40	10.0	10.0	9.7	10.0	10.0	9.3	9.3	8.3	8.3	7.7	7.7	7.3
41	10.0	10.0	9.7	10.0	9.3	9.3	9.3	8.5	7.5	7.8	8.0	7.0
43	10.0	10.0	10.0	10.0	9.3	9.3	9.0	7.8	7.7	7.3	7.7	7.3
44	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.5	8.2	8.0	7.8	7.7
46	10.0	10.0	10.0	5.8	10.0	9.3	9.3	8.5	8.2	7.8	8.0	7.2

TABLE 27. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
47	10.0	10.0	10.0	6.9	9.3	9.3	9.3	7.7	7.7	7.7	7.3	7.2
57	10.0	10.0	10.0	7.8	9.3	9.3	9.3	7.3	7.0	6.3	7.0	7.0
60	6.2	6.3	5.5	10.0	6.0	6.0	7.7	5.8	5.8	5.3	5.8	5.5
63	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.3	8.7	8.3	8.3	8.3
82	10.0	10.0	10.0	10.0	9.3	9.3	9.3	7.3	7.0	6.7	6.7	6.7
97	10.0	10.0	10.0	10.0	9.3	9.3	9.0	7.7	7.3	7.0	7.7	7.0
100	10.0	10.0	10.0	10.0	10.0	9.3	10.0	8.3	8.3	8.0	8.5	8.3
Paint-Water, Yellow (120 sec)												
69 Paint-Polyester, White	3.1	3.3	5.0	10.0	3.3	3.2	5.2	2.2	2.0	2.0	2.0	1.7
70 Paint-Polyester, Yellow	10.0	10.0	9.7	10.0	9.7	9.7	9.3	9.0	8.7	8.3	8.3	8.0
71 Thermoplastic-White, Alkyd	10.0	10.0	9.7	9.7	9.0	8.8	8.8	8.0	8.3	8.3	8.7	7.0
72 Thermoplastic-White, Cold Curing	10.0	10.0	10.0	9.7	10.0	10.0	9.7	9.7	9.3	9.3	9.3	9.0
78 Thermoplastic-Yellow, Alkyd	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
73 Thermoplastic-Yellow, Hydrocarbon	10.0	10.0	10.0	9.7	10.0	9.7	9.7	9.7	9.3	9.3	9.3	9.0
62	10.0	9.7	10.0	10.0	9.7	9.7	9.7	9.3	9.0	9.0	9.3	8.7

TABLE 28. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6	9.7	10.0	9.7	9.7	9.7	9.3	8.0	8.7	7.7	7.0	7.0	6.8
33	8.7	8.7	8.5	8.7	8.2	7.7	7.3	7.0	6.3	6.0	6.5	6.7
35	9.7	9.7	9.3	9.6	9.0	8.5	8.0	8.2	8.0	7.0	7.3	7.8
37	9.7	9.7	9.2	9.3	8.7	8.3	8.3	8.0	7.7	7.0	7.0	7.2
64	9.7	9.7	9.2	9.7	9.0	8.5	8.2	7.3	7.3	7.0	6.7	6.8
81	8.0	7.2	7.3	7.3	7.0	6.8	6.2	7.2	6.7	5.0	5.2	5.3
84	9.7	10.0	9.3	9.7	9.3	8.5	8.2	7.8	7.3	7.0	7.2	7.5
87	9.7	9.9	9.5	9.5	9.3	8.5	8.8	8.3	7.5	6.8	6.5	7.3
88	9.7	10.0	10.0	10.0	10.0	9.3	9.3	9.3	8.2	8.3	7.7	8.0
91	9.7	9.8	9.5	9.7	9.0	8.7	8.3	8.0	7.0	5.3	4.8	5.8
92	9.0	8.7	8.8	8.8	8.3	7.8	7.0	7.3	6.7	6.0	5.5	6.0
93	9.8	10.0	9.7	9.7	9.7	9.2	7.5	8.3	7.3	6.3	5.7	6.8
98	10.0	10.0	10.0	10.0	10.0	9.7	9.3	8.7	8.0	7.0	7.0	7.0
103	8.8	8.3	8.3	8.5	8.2	7.7	8.0	8.0	7.3	6.8	6.3	6.8
Paint-Solvent, White (120 sec)												
66	9.0	9.0	9.2	9.7	9.0	8.5	8.3	8.0	7.7	7.3	7.3	8.2
Paint-Solvent, White (3 min or more)												
11	9.7	10.0	10.0	9.7	9.7	9.0	8.0	8.7	7.7	7.0	7.0	6.8
94	8.7	8.8	8.7	8.7	8.7	8.0	8.2	7.7	7.5	6.0	6.0	6.2
95	8.7	8.6	8.7	8.8	8.7	8.0	8.7	7.8	7.7	6.3	6.5	7.3
Paint-Solvent, Yellow (60 sec)												
7	9.8	10.0	10.0	10.0	10.0	9.5	9.3	9.3	8.5	8.7	8.7	8.7
8	9.8	10.0	10.0	10.0	10.0	9.3	9.3	9.3	8.7	8.3	8.7	8.7
34	9.7	9.3	9.2	9.3	9.3	8.2	8.5	8.0	7.7	7.7	7.3	8.0
36	9.7	10.0	9.7	9.8	9.5	9.0	8.7	9.2	8.7	8.3	8.5	8.3

TABLE 28. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	9.3	9.2	9.4	9.2	9.0	8.7	8.5	8.5	7.7	8.0	7.5	8.0
65	9.3	9.3	9.0	9.6	9.2	9.0	8.8	8.5	8.0	7.7	7.2	8.2
80	9.3	9.3	9.0	9.0	9.0	7.8	8.5	8.5	7.5	7.2	6.8	7.8
85	9.7	10.0	9.8	9.8	9.7	9.3	8.8	9.0	8.7	7.8	8.0	8.3
86	10.0	10.0	10.0	10.0	10.0	9.3	9.3	9.3	8.3	7.7	7.7	8.2
89	9.8	10.0	10.0	10.0	10.0	9.0	9.3	9.0	8.7	7.7	7.8	8.3
99	9.7	10.0	9.8	9.8	9.5	9.0	9.3	9.3	8.5	8.2	7.8	7.8
102	9.7	9.0	8.8	8.8	8.7	7.5	7.7	7.3	6.8	6.0	5.5	6.0
Paint-Solvent, Yellow (120 sec)												
67	8.8	9.0	9.0	9.8	9.0	8.7	8.5	8.0	8.0	7.7	7.7	8.3
Paint-Solvent, Yellow (3 min or more)												
12	9.7	10.0	9.7	9.8	9.7	9.3	9.3	9.3	8.5	8.3	8.7	8.3
Paint-Water, White (60 sec)												
5	7.8	7.1	7.3	7.2	7.5	6.3	6.2	6.5	5.7	4.8	4.7	5.2
39	8.8	9.5	9.2	9.2	9.0	8.0	8.3	8.5	7.7	7.2	7.0	7.2
42	9.3	9.6	9.2	9.8	9.0	8.8	8.3	7.8	7.3	6.8	7.2	7.5
45	10.0	10.0	10.0	10.0	10.0	9.3	9.0	8.7	8.2	8.0	7.7	8.3
48	10.0	10.0	10.0	10.0	10.0	9.3	9.3	9.0	8.3	7.7	7.7	8.3
61	10.0	10.0	10.0	10.0	10.0	9.3	9.0	9.0	8.0	7.7	7.7	8.0
63	5.2	4.5	5.5	4.5	4.5	4.7	4.7	4.2	2.7	3.2	3.0	3.5
96	5.0	4.0	4.7	4.3	4.2	4.3	4.7	3.7	2.7	3.2	2.7	3.2
Paint-Water, White (120 sec)												
68	6.3	5.7	6.2	6.5	5.5	5.7	5.7	4.7	5.0	4.2	4.7	4.8
Paint-Water, Yellow (60 sec)												
9	8.8	8.2	8.5	9.0	8.7	8.0	8.0	8.0	7.0	6.7	6.3	6.0
10	6.8	6.2	6.3	6.8	6.5	6.3	6.0	7.0	6.2	4.7	5.0	5.5
40	8.3	7.5	8.5	8.2	8.2	7.7	7.2	7.8	6.7	6.0	6.3	6.5

TABLE 28. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
41	6.7	7.6	8.2	8.7	8.7	7.7	7.7	8.0	7.3	6.7	6.2	7.0
43	9.0	9.2	8.8	8.8	9.2	8.5	8.7	7.5	7.5	7.2	7.5	8.2
44	9.5	9.7	9.6	9.8	9.8	9.2	9.2	9.3	8.5	8.2	8.3	8.3
46	9.7	10.0	10.0	10.0	10.0	9.3	9.3	9.3	8.7	8.3	8.5	8.3
47	9.3	9.2	9.2	9.3	9.0	8.7	8.8	8.3	8.2	8.0	8.0	8.3
57	8.7	8.3	8.3	8.3	8.2	7.7	7.3	8.0	7.3	6.7	6.7	7.2
60	2.0	2.0	2.2	2.0	1.8	2.0	2.5	1.3	2.3	1.8	1.8	2.0
63	10.0	10.0	10.0	10.0	10.0	9.3	9.3	9.0	8.7	9.0	8.7	8.7
82	1.8	1.8	1.8	1.5	2.0	1.5	3.7	1.5	1.2	1.5	1.2	1.6
97	5.2	4.0	4.0	4.2	3.8	4.0	4.3	3.5	2.5	2.5	2.5	3.2
Paint-Water, Yellow (120 sec)												
69	6.2	6.3	6.2	6.7	6.8	5.3	5.7	6.2	5.8	5.5	5.8	6.2
Paint-Polyester, White												
70	9.2	8.0	7.5	7.3	7.3	7.0	6.3	7.0	6.0	5.5	5.7	5.3
Paint-Polyester, Yellow												
71	8.5	7.8	8.2	7.5	7.0	7.2	6.2	7.0	6.3	6.3	6.2	6.7
Thermoplastic-White, Alkyd												
72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	10.0
Thermoplastic-White, Cold Curing												
78	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	10.0
Thermoplastic-Yellow, Alkyd												
73	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	9.7
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	10.0	10.0	9.7

TABLE 29. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.0	5.7	8.2	7.8	8.2
33	10.0	10.0	9.7	10.0	10.0	8.2	9.7	9.0	5.3	7.7	7.2	7.5
35	10.0	10.0	10.0	10.0	9.7	9.7	9.7	9.3	5.2	7.8	7.7	8.0
37	10.0	10.0	9.7	10.0	9.7	9.7	9.7	9.0	5.3	7.8	7.7	7.8
64	10.0	10.0	10.0	10.0	9.7	9.7	9.7	8.7	5.0	8.0	7.2	7.0
81	10.0	10.0	10.0	10.0	10.0	9.7	9.7	8.5	4.8	7.0	7.7	6.5
84	10.0	10.0	10.0	10.0	9.7	9.7	9.3	8.7	5.0	8.0	7.2	7.3
87	10.0	10.0	10.0	10.0	10.0	9.7	9.7	8.2	5.0	7.3	7.0	7.0
88	10.0	10.0	10.0	10.0	9.7	9.3	9.3	7.8	4.2	6.2	6.5	6.3
91	10.0	10.0	10.0	10.0	10.0	10.0	9.7	8.7	5.0	8.3	7.3	7.7
92	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.3	4.8	7.8	6.7	7.0
93	10.0	10.0	10.0	10.0	10.0	9.7	9.7	8.2	4.7	7.3	6.7	6.3
98	10.0	10.0	10.0	10.0	9.5	9.2	9.2	7.7	4.3	6.7	6.5	6.0
103	10.0	10.0	10.0	10.0	10.0	9.7	9.7	8.8	5.2	8.0	7.3	7.3
Paint-Solvent, White (120 sec)												
66	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.0	5.3	8.0	7.3	7.0
Paint-Solvent, White (3 min or more)												
11	10.0	10.0	9.7	10.0	9.7	9.3	9.7	8.0	5.2	7.5	7.5	7.2
94	10.0	10.0	10.0	10.0	9.7	9.7	9.3	8.3	4.5	7.0	6.7	6.7
95	10.0	10.0	9.7	10.0	9.0	8.7	8.0	7.3	4.3	7.3	6.8	7.0
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	9.7	10.0	9.7	9.3	9.7	9.2	5.3	8.5	8.3	8.3
8	10.0	9.8	10.0	10.0	9.8	9.7	9.3	9.0	5.7	8.0	7.7	7.3
34	10.0	10.0	9.7	10.0	10.0	8.8	9.7	9.0	5.7	8.3	8.0	8.0
36	10.0	10.0	10.0	10.0	9.7	9.2	9.7	9.3	6.0	9.3	8.7	8.7

TABLE 29. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	9.7	10.0	10.0	9.7	9.3	9.3	9.0	5.2	8.0	8.0	8.0
65	10.0	9.7	10.0	10.0	9.7	9.7	9.7	8.7	5.3	8.3	7.7	7.5
80	10.0	10.0	10.0	10.0	10.0	9.7	8.7	9.0	5.5	8.3	8.0	8.3
85	10.0	10.0	10.0	10.0	9.7	9.7	9.7	9.0	5.3	8.3	8.0	7.7
86	10.0	10.0	10.0	10.0	9.7	9.3	9.0	7.5	4.3	7.2	6.8	7.3
89	10.0	10.0	10.0	10.0	9.7	9.3	9.0	7.7	4.5	7.3	7.0	7.3
99	10.0	10.0	10.0	10.0	9.7	9.3	9.3	8.7	5.2	8.3	7.7	7.5
102	10.0	9.2	9.5	10.0	9.5	8.8	9.1	9.1	5.3	8.3	7.7	7.7
Paint-Solvent, Yellow (120 sec)												
67	10.0	10.0	10.0	10.0	10.0	9.7	9.7	8.3	5.3	8.0	7.3	7.7
Paint-Solvent, Yellow (3 min or more)												
12	10.0	10.0	9.7	10.0	9.7	9.3	9.3	8.7	5.5	8.3	7.7	7.7
Paint-Water, White (60 sec)												
5	8.3	8.0	5.9	10.0	5.2	4.7	4.0	3.8	2.3	3.8	3.2	3.2
39	7.8	7.8	7.5	10.0	7.0	5.5	5.3	4.5	2.0	3.7	3.5	3.2
42	10.0	10.0	10.0	10.0	9.7	9.3	8.7	6.7	3.3	5.0	4.8	4.8
45	10.0	10.0	9.7	10.0	9.2	8.0	7.3	5.7	2.7	3.8	3.2	3.2
48	10.0	10.0	10.0	10.0	9.7	9.3	8.0	6.3	3.0	4.3	3.3	4.8
61	10.0	9.8	9.5	10.0	9.3	9.0	8.3	6.5	3.5	5.3	4.7	4.3
83	9.3	9.2	9.2	10.0	9.3	8.5	9.0	7.7	4.5	6.3	6.0	5.7
96	10.0	9.1	8.8	10.0	7.8	7.8	7.3	6.5	4.0	5.5	6.0	5.8
101	10.0	10.0	10.0	10.0	9.7	9.3	9.0	7.5	4.0	5.3	5.0	5.0
Paint-Water, White (120 sec)												
68	3.2	2.7	2.0	10.0	1.7	1.2	1.2	1.3	0.7	1.0	1.0	1.2
Paint-Water, Yellow (60 sec)												
9	8.1	7.5	7.1	10.0	6.8	5.5	7.0	4.5	2.7	4.5	4.3	4.5
10	6.7	6.1	5.7	10.0	5.2	4.2	4.0	3.8	2.2	3.0	3.3	3.2

TABLE 29. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
40	9.1	9.0	8.5	10.0	8.0	8.3	5.5	4.2	2.0	3.0	2.7	2.5
41	9.3	9.3	8.8	10.0	7.8	6.3	5.8	3.7	2.0	2.8	2.5	2.8
43	10.0	10.0	9.7	10.0	8.5	7.7	6.8	4.7	2.7	4.7	4.2	4.3
44	10.0	10.0	9.7	10.0	9.0	8.7	8.2	6.0	3.7	5.5	5.7	5.0
46	10.0	10.0	9.7	10.0	8.8	8.3	7.7	5.8	3.3	5.0	4.5	4.7
47	10.0	9.7	9.7	10.0	8.3	8.0	6.2	5.3	2.3	3.7	3.7	2.8
57	9.1	9.3	8.3	10.0	7.5	6.2	6.2	3.8	2.5	3.5	3.2	3.3
60	4.0	4.7	4.2	10.0	4.2	3.8	3.8	3.5	2.3	3.8	3.3	3.7
63	10.0	10.0	9.7	10.0	9.3	9.0	8.7	7.0	3.7	5.0	4.7	4.8
82	10.0	10.0	9.7	10.0	8.3	7.5	7.3	5.3	2.2	3.3	3.3	3.3
97	5.8	4.7	3.7	10.0	2.8	3.0	2.7	2.5	1.7	2.0	2.3	2.2
100	10.0	10.0	9.7	10.0	9.2	8.3	8.0	6.5	3.0	4.8	4.2	4.3
Paint-Water, Yellow (120 sec)												
69	3.6	3.7	2.5	10.0	2.0	1.5	1.3	1.3	0.8	1.2	1.2	1.2
Paint-Polyester, White												
70	10.0	9.7	8.9	10.0	8.3	7.7	7.2	6.8	4.3	6.7	6.7	6.2
Paint-Polyester, Yellow												
71	10.0	9.7	9.7	10.0	9.0	8.5	8.2	7.8	4.8	7.2	7.0	5.7
Thermoplastic-White, Alkyd												
72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	6.7	10.0	9.8	10.0
Thermoplastic-White, Cold Curing												
78	10.0	8.3	10.0	10.0	10.0	10.0	10.0	10.0	6.7	10.0	10.0	10.0
Thermoplastic-Yellow, Alkyd												
73	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.7	6.2	9.3	9.3	9.3
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	6.7	10.0	10.0	10.0

TABLE 30. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	8.5	8.3	8.3
33	10.0	10.0	10.0	10.0	10.0	9.7	8.7	8.7	8.0	8.3	8.3	8.0
35	10.0	10.0	10.0	10.0	10.0	9.8	8.8	9.0	8.0	8.0	8.3	8.0
37	10.0	10.0	10.0	10.0	10.0	9.8	8.8	9.0	8.0	8.0	8.3	8.0
64	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.7	8.3	8.3	8.3
81	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.3	8.3	8.3	8.7	8.7
84	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.0	7.7	8.0	8.3	8.0
87	10.0	10.0	10.0	10.0	10.0	10.0	9.3	8.3	8.7	8.3	8.3	8.7
88	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.3	8.7	8.3	8.3	8.7
91	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	8.7	8.7	8.7
92	10.0	10.0	10.0	10.0	10.0	9.7	9.0	8.5	7.3	7.0	7.3	7.0
93	9.8	10.0	9.8	9.8	10.0	9.7	8.7	8.0	7.3	7.0	6.8	6.7
98	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.2	8.0	8.0	8.3	7.7
103	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	9.0	9.3	9.0
Paint-Solvent, White (120 sec)												
66	9.5	9.7	9.8	10.0	10.0	10.0	9.0	8.5	8.3	7.7	7.5	8.0
Paint-Solvent, White (3 min or more)												
11	10.0	10.0	10.0	10.0	10.0	9.0	8.7	8.3	7.0	7.0	7.5	7.0
94	9.8	9.9	10.0	9.7	9.7	9.3	8.5	8.3	7.0	7.5	7.8	7.5
95	9.8	10.0	10.0	10.0	10.0	10.0	9.3	9.3	7.2	6.0	6.5	6.2
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.3	8.7	8.7	8.3
8	10.0	10.0	10.0	10.0	10.0	9.2	9.3	9.5	8.7	9.0	9.0	8.7
34	10.0	10.0	10.0	10.0	10.0	9.7	8.8	9.0	7.8	8.5	8.5	8.3
36	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.3	9.0	9.0	8.7

TABLE 30. Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.2	8.3	9.0	8.7	8.3
65	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.2	8.7	8.5	8.7	8.3
80	10.0	10.0	10.0	9.7	10.0	9.3	9.3	9.0	8.3	8.5	9.0	8.7
85	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	8.8	8.7	8.7
86	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.7	8.7	8.8	9.0	8.3
89	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.7	8.7	8.8	9.0	8.3
99	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.2	8.7	9.0	9.0	9.0
102	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.0	8.3	8.3	8.0
Paint-Solvent, Yellow (120 sec)												
67	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	7.5	8.3	8.5
Paint-Solvent, Yellow (3 min or more)												
12	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.0	8.3	8.7	8.5	8.0
Paint-Water, White (60 sec)												
5	9.0	8.8	8.7	8.7	8.7	8.7	8.0	7.5	6.3	6.8	6.5	7.0
39	9.8	9.7	10.0	10.0	10.0	10.0	9.0	8.7	8.0	8.2	8.0	8.3
42	10.0	9.7	10.0	10.0	10.0	10.0	9.0	8.7	7.7	7.8	7.7	7.7
45	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.0	8.3	8.0	8.3	8.5
48	10.0	10.0	10.0	10.0	10.0	9.7	9.3	8.7	7.8	7.7	8.0	7.5
61	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.3	8.3	8.8	8.5	8.3
83	3.2	3.0	3.7	3.0	2.7	4.3	3.2	2.0	3.0	2.0	2.8	2.7
96	10.0	10.0	10.0	9.8	10.0	9.7	8.7	8.5	8.0	7.2	6.7	6.8
Paint-Water, White (120 sec)												
68	5.8	5.0	5.0	5.0	5.0	5.2	5.5	3.8	3.8	4.0	3.3	3.7
Paint-Water, Yellow (60 sec)												
9	9.3	9.6	9.3	9.3	9.5	9.0	8.7	8.2	7.0	7.3	7.0	6.8
10	8.5	8.3	8.3	7.8	8.3	8.0	7.3	6.8	5.3	5.0	5.5	5.8
40	9.8	10.0	9.8	9.8	9.8	9.5	9.0	8.7	7.3	7.5	7.7	7.8

TABLE 30.

Durability Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
41	9.7	9.8	9.8	9.8	9.8	9.3	9.0	8.3	7.0	6.7	6.8	7.2
43	9.5	9.7	9.7	9.6	9.8	9.5	8.7	8.8	7.0	6.7	7.3	7.3
44	10.0	10.0	10.0	10.0	10.0	9.8	9.3	9.5	8.3	8.7	8.3	8.5
46	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.3	7.8	8.3	8.3
47	10.0	9.8	10.0	10.0	10.0	10.0	9.3	9.2	7.8	7.5	7.3	7.7
57	9.0	8.9	8.8	8.8	8.7	8.5	8.0	7.3	6.5	6.0	5.8	6.2
60	5.8	4.8	4.7	4.8	6.7	4.5	4.7	4.3	4.3	4.5	4.3	4.5
63	10.0	10.0	10.0	10.0	8.3	10.0	9.3	9.5	8.7	9.0	8.8	8.8
82	2.5	1.7	2.7	2.2	1.8	2.8	2.8	1.5	2.8	1.8	2.7	2.2
97	3.7	3.8	4.3	4.5	3.8	4.5	3.5	3.2	3.5	2.7	3.3	2.5
Paint-Water, Yellow (120 sec)												
69	6.8	5.5	5.5	5.7	5.5	5.3	5.5	3.8	3.3	4.7	3.5	3.3
Paint-Polyester, White												
70	10.0	9.3	8.7	7.7	7.2	6.8	6.0	5.3	4.2	4.5	4.2	4.3
Paint-Polyester, Yellow												
71	10.0	8.8	8.2	7.8	7.3	7.2	6.3	5.7	4.7	4.8	4.8	4.2
Thermoplastic-White, Alkyd												
72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.7	10.0	9.7
Thermoplastic-White, Cold Curing												
78	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	10.0	10.0	10.0
Thermoplastic-Yellow, Alkyd												
73	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	10.0	10.0	9.7
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	10.0	10.0	10.0

TABLE 31. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement (Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6	10.0	8.0	7.8	7.3	6.5	6.5	6.9	6.3	6.3	6.4	6.0	6.2
33	10.0	8.5	7.6	7.5	7.1	7.2	7.2	6.9	6.9	6.9	6.7	6.5
35	10.0	8.9	8.0	7.5	7.4	7.3	7.5	7.4	7.9	7.3	7.3	6.5
37	10.0	7.9	7.5	7.5	7.3	7.9	7.9	7.5	8.2	7.5	7.5	7.2
64	10.0	9.0	8.7	8.3	8.0	8.2	8.2	7.9	8.0	8.0	7.7	7.5
81	10.0	8.9	8.7	8.0	7.3	7.2	7.3	7.7	7.5	7.5	7.0	7.2
84	10.0	8.9	8.2	7.8	7.9	7.7	7.7	7.9	7.7	7.7	7.9	7.3
87	10.0	8.4	7.9	7.8	7.2	7.3	7.4	7.4	7.7	7.4	7.2	7.0
88	10.0	8.7	8.2	7.9	7.7	7.7	7.7	7.5	8.0	7.7	7.5	7.2
98	10.0	8.7	8.7	8.2	7.7	7.4	7.5	7.7	7.5	7.5	7.7	7.4
103	10.0	8.7	7.9	8.5	8.2	8.7	8.0	7.9	8.2	7.5	7.7	7.4
Paint-Solvent, White (120 sec)												
66	10.0	7.5	7.3	7.0	7.0	6.9	7.2	7.5	7.2	7.2	7.0	7.0
Paint-Solvent, White (3 min or more)												
11	10.0	7.7	7.7	7.2	6.5	6.5	6.7	6.7	6.2	6.3	6.2	6.0
Paint-Solvent, Yellow (60 sec)												
7	10.0	8.7	8.3	8.0	8.2	8.2	8.3	7.9	7.5	7.5	7.5	7.2
8	9.8	8.3	8.0	7.7	7.3	7.3	7.5	7.0	6.7	6.5	5.9	6.5
34	10.0	9.0	8.3	8.0	7.9	8.5	8.3	8.0	8.2	7.7	7.9	7.3
36	10.0	8.9	8.3	8.0	7.7	8.5	8.2	7.9	8.0	7.5	7.5	6.9
38	10.0	8.7	8.2	7.8	7.3	8.1	7.6	7.3	7.7	7.2	6.7	6.7
65	10.0	9.5	8.5	8.7	8.7	8.7	8.9	8.5	8.2	8.2	7.7	8.0
80	10.0	8.9	8.4	8.2	7.7	8.3	8.3	8.0	8.0	7.9	8.0	7.2
85	10.0	9.5	9.0	8.7	8.5	8.7	8.9	8.6	8.9	8.7	8.2	8.2
86	10.0	9.2	8.9	8.7	8.2	8.5	8.3	8.2	8.4	8.2	8.2	7.7

TABLE 31. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
89	10.0	9.2	8.9	8.7	8.3	8.9	8.5	8.3	8.4	8.0	8.2	7.5
99	10.0	8.9	8.2	8.2	7.9	8.3	8.3	8.0	8.0	7.7	7.9	6.9
102	10.0	8.5	7.7	7.7	7.7	7.9	7.7	7.0	7.5	7.0	6.9	6.4
Paint-Solvent, Yellow (120 sec)												
67	10.0	8.3	8.6	8.3	8.3	8.1	8.4	8.4	8.4	8.6	8.6	8.4
Paint-Solvent, Yellow (3 min or more)												
12	10.0	9.2	8.2	8.0	8.0	8.3	8.3	7.7	7.5	7.7	7.4	6.5
Paint-Water, White (60 sec)												
5	10.0	9.2	9.0	8.7	8.4	8.7	8.5	8.5	8.0	8.2	7.9	8.0
39	9.8	9.2	8.4	8.2	7.8	7.8	8.1	8.1	7.7	7.7	7.7	7.9
42	10.0	9.3	9.0	8.9	8.7	8.9	8.9	8.7	8.5	8.7	8.2	8.2
45	10.0	9.0	8.7	8.7	7.9	8.1	8.3	8.1	8.5	8.4	8.4	8.1
48	10.0	8.7	8.3	8.0	6.8	7.3	7.3	7.3	7.3	6.7	7.0	6.7
61	10.0	8.9	8.5	8.4	8.0	8.0	8.2	8.0	7.7	7.9	7.3	7.7
83	10.0	8.7	8.5	8.0	7.3	7.3	7.3	7.3	7.7	7.0	7.4	7.2
96	10.0	9.2	8.9	8.5	8.4	8.3	8.5	8.2	7.7	7.7	7.5	7.7
101	10.0	9.0	8.2	8.2	8.0	8.0	8.2	8.2	8.0	8.2	7.9	7.9
Paint-Water, White (120 sec)												
68	9.7	7.8	7.3	7.0	6.2	6.7	7.0	7.2	7.0	7.0	6.7	6.3
Paint-Water, Yellow (60 sec)												
9	10.0	9.3	9.2	9.2	8.7	8.9	9.0	8.9	9.0	9.3	9.2	9.0
10	10.0	7.7	7.7	7.9	7.9	8.2	7.3	7.2	7.5	7.2	6.7	6.9
40	9.7	8.5	8.3	8.0	7.6	7.8	7.9	7.9	7.9	7.7	7.7	7.6
41	10.0	8.3	8.3	8.0	7.5	8.0	8.2	8.0	7.7	8.4	8.0	7.7
43	10.0	8.9	8.7	8.5	8.3	8.2	8.3	8.5	8.3	7.9	7.8	7.5
44	10.0	9.0	8.2	8.3	8.0	8.2	8.5	8.3	8.2	8.0	8.0	7.7
46	9.3	8.9	8.2	8.0	8.0	8.2	8.3	8.2	8.0	8.0	7.9	7.7

TABLE 31. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
47	9.3	8.5	8.3	8.2	7.9	8.2	8.3	8.3	8.2	8.0	7.9	7.9
57	9.7	9.5	8.9	8.5	8.4	7.9	8.3	8.2	8.0	7.7	7.5	7.7
60	10.0	8.9	8.3	8.3	8.3	8.3	8.6	8.6	8.4	8.6	8.6	8.6
63	10.0	9.2	8.7	8.3	8.5	8.2	8.5	8.3	8.7	8.9	8.5	8.3
82	10.0	8.7	8.2	8.2	7.9	7.9	8.3	8.0	7.9	7.7	7.7	7.5
97	10.0	9.2	9.0	8.7	8.5	8.5	8.5	8.4	8.9	8.5	7.9	8.0
100	10.0	8.9	8.4	8.4	8.1	8.1	8.3	7.9	7.8	7.5	7.5	7.5
Paint-Water, Yellow (120 sec)												
69	10.0	8.5	8.2	8.0	7.9	8.0	8.3	8.0	8.2	8.3	8.3	7.5
Paint-Polyester, White												
70	9.8	7.6	7.3	7.1	6.7	7.0	6.9	6.7	6.0	6.4	6.0	5.9
Paint-Polyester, Yellow												
71	10.0	7.8	7.8	7.4	7.7	7.5	7.7	7.7	7.5	7.9	6.9	7.0
Thermoplastic-White, Alkyd												
72	10.0	9.0	8.5	8.7	8.3	8.7	8.3	8.7	8.9	8.7	9.3	8.9
Thermoplastic-White, Cold Curing												
78	10.0	7.2	6.7	6.3	6.0	6.3	6.7	7.0	7.2	6.7	7.7	6.7
Thermoplastic-Yellow, Alkyd												
73	10.0	9.3	8.9	9.3	9.0	9.3	8.7	9.3	9.0	8.9	8.3	8.3
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	9.3	9.2	9.3	9.0	9.2	9.2	9.0	9.3	9.3	9.7	9.3
Permanent Tape, White												
1	10.0	7.5	7.4	7.1	7.0	7.2	7.3	7.4	7.3	7.7	8.3	7.5
16	10.0	10.0	9.7	9.7	9.2	9.0	9.2	8.9	9.3	9.2	9.5	8.9
19	10.0	10.0	9.7	9.5	9.3	8.7	8.7	9.2	9.7	9.7	9.9	9.2
20	10.0	10.0	9.7	9.5	9.2	8.7	8.7	9.2	9.7	9.7	9.7	9.0
27	10.0	7.3	7.0	7.0	6.6	6.5	6.7	6.9	7.2	7.2	7.9	6.9
30	10.0	8.0	7.7	7.7	7.2	7.3	7.9	7.9	7.7	7.7	8.3	7.3

TABLE 31. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, White(continued)												
32	10.0	9.2	9.2	9.0	8.5	8.9	9.0	8.7	8.7	8.9	9.3	8.3
58	10.0	10.0	9.5	9.4	8.9	8.3	8.9	9.0	9.0	8.7	6.2	5.8
75	10.0	8.5	9.0	8.8	8.5	8.5	8.5	8.5	8.9	8.7	6.0	5.7
Temporary Tape, White												
14	10.0	8.2	8.2	7.5	7.2	7.5	8.2	7.9	7.9	7.9	8.5	7.5
Permanent Tape, Yellow												
2	10.0	7.7	7.6	6.5	6.7	6.9	7.0	6.9	7.5	8.3	5.2	4.7
15	10.0	10.0	9.7	9.7	9.3	9.2	9.3	9.3	9.7	9.7	10.0	9.3
21	10.0	10.0	9.2	8.9	8.9	8.9	9.0	9.0	9.7	9.5	9.7	8.9
28	10.0	8.5	8.2	7.7	7.5	7.2	7.5	7.9	7.9	7.9	7.8	7.4
29	10.0	8.2	7.9	8.0	7.7	7.9	8.0	8.4	8.2	8.3	8.7	7.7
31	10.0	9.3	9.2	9.2	8.6	8.8	8.9	9.1	9.1	8.9	9.4	8.8
59	10.0	10.0	9.5	9.3	8.5	8.7	8.9	8.5	9.4	9.3	7.6	7.1
74	10.0	9.4	9.5	9.2	9.2	9.0	9.2	9.2	9.4	9.7	6.5	6.2
Temporary Tape, Yellow												
13	10.0	8.5	8.2	7.9	7.7	7.8	7.9	8.5	7.5	8.2	8.4	7.7

TABLE 32. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6	9.7	9.6	9.3	9.0	8.8	8.7	8.3	8.2	6.7	7.0	7.0	6.9
33	9.8	9.7	9.3	9.5	9.3	8.5	8.0	8.3	6.7	6.9	6.8	6.4
35	10.0	10.0	9.6	9.7	9.5	8.8	8.2	8.7	7.4	7.3	7.3	7.0
37	10.0	10.0	9.8	9.7	9.7	9.2	8.7	8.7	7.5	7.9	7.4	7.4
64	9.8	10.0	9.5	9.7	9.5	8.3	8.2	8.3	6.9	6.9	6.4	6.5
81	9.8	9.8	9.5	9.5	8.9	8.8	8.2	8.2	6.9	7.2	6.5	6.9
84	9.8	10.0	9.7	9.7	9.5	8.5	8.2	8.5	6.9	6.9	6.7	6.6
87	10.0	10.0	9.7	9.7	9.7	9.0	8.2	9.2	7.5	7.7	7.7	7.4
88	10.0	10.0	9.7	9.7	9.7	9.2	8.3	9.0	7.7	8.3	8.0	7.5
91	10.0	10.0	9.3	9.3	9.3	8.8	8.2	8.2	6.7	6.4	6.4	5.7
92	9.8	10.0	9.5	9.5	9.7	9.2	8.2	8.3	6.9	7.0	6.9	6.5
93	10.0	10.0	9.7	9.7	9.7	9.2	8.2	9.0	7.3	7.0	7.5	6.9
98	10.0	10.0	9.8	9.7	9.7	9.2	8.5	9.2	7.5	7.7	7.4	7.2
103	10.0	10.0	10.0	10.0	9.8	9.3	8.7	9.3	7.9	7.9	7.9	7.3
Paint-Solvent, White (120 sec)												
66	10.0	10.0	9.7	9.5	9.5	8.7	7.8	8.5	7.0	7.2	7.0	6.7
Paint-Solvent, White (3 min or more)												
11	9.7	9.8	9.3	9.3	8.8	8.7	8.3	8.2	6.7	6.9	7.0	6.7
94	10.0	10.0	9.7	9.7	9.7	9.3	8.3	9.0	7.4	7.4	7.4	7.4
95	10.0	10.0	9.8	9.7	9.5	9.3	8.8	9.2	7.9	8.2	8.0	7.5
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	10.0	10.0	10.0	9.3	9.0	9.3	8.0	8.2	8.0	7.7
8	10.0	10.0	10.0	10.0	10.0	9.5	8.8	9.3	7.9	7.9	8.0	7.5
34	10.0	9.9	10.0	10.0	9.8	9.3	8.7	9.0	8.0	7.9	7.7	7.1
36	10.0	10.0	10.0	10.0	10.0	9.5	8.8	9.3	8.4	8.0	8.0	7.7

TABLE 32. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	10.0	10.0	10.0	10.0	9.5	8.8	9.3	8.0	7.7	8.0	7.5
65	10.0	10.0	10.0	9.8	10.0	9.3	8.8	9.2	7.7	7.9	7.5	7.2
80	10.0	10.0	10.0	10.0	10.0	9.5	9.2	9.3	8.0	8.0	7.9	7.7
85	10.0	10.0	10.0	9.8	10.0	9.5	8.8	9.3	8.3	8.2	7.8	8.0
86	10.0	10.0	10.0	10.0	10.0	9.7	8.8	9.3	8.5	8.5	8.5	8.0
89	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.6	8.7	8.7	8.0
99	10.0	10.0	10.0	10.0	10.0	9.5	8.8	9.3	8.2	8.0	8.0	7.5
102	10.0	9.7	9.0	8.9	8.7	8.3	7.5	7.7	6.4	6.2	6.2	5.8
Paint-Solvent, Yellow (120 sec)												
67	9.9	10.0	10.0	10.0	9.7	9.7	8.8	9.3	8.3	8.2	7.7	7.7
Paint-Solvent, Yellow (3 min or more)												
12	9.8	10.0	10.0	10.0	9.8	9.3	9.0	9.3	7.7	7.8	8.0	7.4
Paint-Water, White (60 sec)												
5	8.2	8.2	8.0	7.3	7.0	7.0	6.7	6.7	5.7	5.7	5.5	5.7
39	9.0	9.3	8.8	9.0	8.7	8.2	7.8	8.2	6.8	6.5	6.9	6.5
42	9.7	9.9	9.5	9.5	9.5	8.7	8.5	8.7	7.5	7.5	6.7	7.1
45	10.0	10.0	9.8	9.7	9.7	9.0	8.5	8.7	7.5	7.7	7.2	7.4
48	9.9	10.0	9.7	9.7	9.7	9.0	8.3	8.8	7.2	7.5	7.5	7.5
61	10.0	10.0	9.8	9.7	9.7	9.0	8.3	8.8	7.2	7.5	7.5	7.4
83	9.0	9.3	8.2	8.7	8.3	8.7	8.0	8.2	6.7	7.2	6.4	6.7
96	8.8	9.1	8.0	8.3	8.2	7.8	7.2	6.7	6.0	5.7	5.7	5.5
Paint-Water, White (120 sec)												
68	7.8	7.8	7.2	7.0	7.2	6.6	6.2	6.4	5.4	4.9	5.6	5.4
Paint-Water, Yellow (60 sec)												
9	8.2	8.3	8.0	7.5	7.0	7.5	7.3	7.3	5.9	6.0	6.0	5.9
10	7.0	7.3	7.2	6.5	6.1	6.7	6.5	6.7	5.0	5.4	5.2	5.2
40	8.3	8.7	8.1	8.5	8.0	8.1	7.3	7.3	6.4	6.2	6.0	5.5

TABLE 32.

Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
41	8.4	8.6	8.6	7.9	8.1	7.8	7.3	7.5	6.5	6.3	6.4	5.9
43	8.8	9.0	8.8	8.2	8.5	8.0	7.7	7.7	6.9	6.9	6.5	6.6
44	9.5	9.8	9.8	9.8	9.8	9.3	8.6	8.8	7.8	7.8	7.6	7.3
46	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.4	8.2	8.0	8.2
47	8.4	8.8	8.3	8.2	8.3	7.7	7.3	7.3	6.7	6.7	6.3	6.4
57	7.7	7.8	7.7	7.7	7.2	7.2	7.0	6.7	5.5	5.5	5.5	4.9
60	6.8	6.7	6.3	6.6	6.0	6.2	5.7	6.0	5.0	4.7	4.9	4.8
63	10.0	10.0	10.0	10.0	10.0	9.7	9.2	9.3	8.3	8.9	8.7	8.5
82	5.7	6.2	5.3	5.5	5.3	5.5	5.5	5.3	4.9	4.0	4.2	4.0
97	7.8	7.5	6.5	7.0	7.0	7.0	6.5	6.2	5.6	5.2	5.3	4.9
Paint-Water, Yellow (120 sec)												
69	7.5	7.5	7.1	7.1	6.5	6.6	6.6	6.5	5.7	5.3	5.3	5.5
Paint-Polyester, White												
70	10.0	10.0	9.8	9.3	9.0	8.3	8.0	7.8	6.7	7.2	6.9	6.1
Paint-Polyester, Yellow												
71	10.0	10.0	10.0	10.0	10.0	9.5	8.8	9.3	8.7	8.3	7.9	7.4
Thermoplastic-White, Alkyd												
72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.9	9.7	9.9
Thermoplastic-White, Cold Curing												
78	10.0	10.0	10.0	10.0	9.8	9.8	9.5	9.7	9.2	9.0	9.4	9.2
Thermoplastic-Yellow, Alkyd												
73	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.5	9.7	9.7
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	10.0	9.7
Permanent Tape, White												
1	10.0	9.5	9.7	9.7	9.3	8.7	8.8	9.4	7.7	8.0	8.2	7.8
16	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.9	9.9	9.8
19	10.0	10.0	10.0	10.0	9.7	9.8	9.8	10.0	9.2	9.3	9.3	9.3

TABLE 32. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Permanent Tape, White(continued)												
20	10.0	10.0	10.0	10.0	9.7	9.8	9.7	10.0	9.2	8.9	8.5	9.3
27	10.0	9.7	9.3	9.3	9.0	9.5	9.3	9.0	7.3	8.2	8.0	8.2
30	10.0	10.0	10.0	9.8	9.7	10.0	9.8	10.0	9.7	9.7	9.7	9.0
32	10.0	10.0	10.0	10.0	9.8	10.0	9.9	9.9	9.6	9.7	9.7	9.2
58	10.0	10.0	5.0	5.0	4.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75	10.0	10.0	10.0	9.8	9.7	10.0	9.7	10.0	8.7	9.7	9.3	9.5
Temporary Tape, White												
14	10.0	10.0	9.5	9.3	9.0	9.2	9.0	9.0	8.0	8.0	8.0	8.5
Permanent Tape, Yellow												
2	10.0	9.7	9.5	9.7	9.2	8.8	8.8	9.5	8.4	8.2	8.2	8.4
15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	9.7	9.6
21	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	9.2	9.3
28	10.0	10.0	9.3	9.3	9.0	9.5	9.3	9.0	7.5	8.6	8.0	8.2
29	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.7	9.5
31	10.0	10.0	10.0	10.0	9.9	10.0	9.8	9.9	9.6	9.7	9.6	9.6
59	10.0	10.0	10.0	10.0	10.0	9.6	4.7	4.5	8.7	0.0	0.0	0.0
74	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	9.7	9.9
Temporary Tape, Yellow												
13	10.0	10.0	9.3	9.3	9.3	9.2	9.0	9.0	8.0	8.0	8.0	8.7

TABLE 33. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6	9.2	9.2	8.5	7.7	8.9	6.7	7.0	6.9	4.7	4.7	6.7	6.7
33	10.0	9.2	7.9	6.4	8.7	6.0	5.9	6.4	4.9	3.9	5.9	5.5
35	10.0	9.4	7.6	6.7	8.9	6.4	5.7	6.3	4.9	4.7	6.2	6.2
37	10.0	9.4	7.9	7.0	9.4	7.2	7.0	7.5	5.3	10.7	7.5	7.2
64	10.0	9.3	8.7	8.0	9.3	7.3	7.2	7.7	5.2	4.7	7.2	7.3
81	9.3	9.5	8.4	7.6	9.3	7.2	7.2	7.4	5.0	4.7	6.9	6.8
84	10.0	9.5	8.7	8.0	9.3	7.5	7.5	7.5	5.0	4.7	7.2	7.5
87	10.0	9.3	8.7	8.2	9.5	7.7	7.9	8.0	5.2	5.0	7.7	7.2
88	10.0	9.9	8.7	7.9	9.3	7.2	7.0	7.5	5.0	4.7	7.2	6.9
91	10.0	10.0	8.7	8.2	9.3	7.5	7.5	7.7	5.0	4.7	7.2	7.0
92	10.0	9.3	7.9	7.0	9.0	6.5	6.9	6.7	4.5	4.5	6.3	6.0
93	10.0	9.1	7.6	6.7	8.9	6.2	6.3	6.9	4.9	4.7	6.5	6.5
98	10.0	9.3	8.5	7.2	9.2	6.8	6.9	7.0	5.0	4.7	6.5	6.9
103	10.0	9.3	8.5	7.7	9.3	7.3	7.2	7.3	5.2	4.7	7.4	7.4
Paint-Solvent, White (120 sec)												
66	8.7	9.7	8.7	7.8	9.5	7.3	7.5	7.7	5.7	4.9	7.4	7.2
Paint-Solvent, White (3 min or more)												
11	9.3	9.0	8.5	6.9	9.0	6.5	6.0	6.5	4.7	4.7	5.9	5.7
94	10.0	10.0	9.0	8.7	9.7	7.9	8.0	8.0	5.4	5.0	7.5	7.4
95	10.0	9.9	8.9	7.9	9.3	7.2	7.0	7.2	5.2	4.7	7.0	6.7
Paint-Solvent, Yellow (60 sec)												
7	10.0	9.4	8.7	7.6	9.2	7.0	7.0	7.3	5.2	5.0	6.5	6.5
8	9.0	9.2	8.7	7.9	9.2	6.9	7.0	7.2	5.0	4.9	5.9	6.3
34	10.0	8.9	7.9	7.0	8.9	6.7	6.7	6.7	4.7	4.7	6.2	6.3
36	10.0	8.9	8.2	7.7	9.2	7.2	7.2	7.2	5.2	4.5	6.7	6.7

TABLE 33. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	8.3	7.9	6.7	9.0	6.5	6.9	6.9	4.7	4.2	6.5	6.2
65	10.0	9.5	8.7	7.9	9.3	7.5	7.9	7.7	5.3	5.2	7.5	7.3
80	10.0	9.5	8.7	8.4	9.3	7.5	7.7	7.7	5.3	4.9	7.3	7.5
85	10.0	9.5	8.5	8.2	9.7	7.7	7.7	7.7	5.3	5.0	7.7	7.7
86	10.0	9.9	8.7	8.5	9.2	7.5	7.5	7.5	5.2	4.9	7.2	7.2
89	10.0	9.9	8.7	8.5	9.3	7.7	7.7	7.7	5.2	4.9	7.3	7.0
99	10.0	9.7	9.2	8.5	9.7	8.0	8.0	8.2	5.3	4.9	7.7	7.2
102	10.0	8.9	7.7	7.0	9.2	6.9	7.0	7.2	5.0	4.7	6.7	6.7
Paint-Solvent, Yellow (120 sec)												
67	9.3	9.2	8.7	8.4	9.5	7.5	7.5	7.8	5.7	5.3	7.3	7.5
Paint-Solvent, Yellow (3 min or more)												
12	10.0	9.3	8.5	7.9	9.4	7.2	7.2	7.2	4.9	4.7	6.2	6.4
Paint-Water, White (60 sec)												
5	10.0	9.0	7.4	6.7	8.9	6.2	6.0	6.4	4.7	4.3	5.7	5.7
39	10.0	9.0	8.4	7.8	9.5	8.0	7.9	8.0	5.7	5.2	7.7	7.8
42	9.7	9.7	9.0	8.7	9.9	8.7	8.7	8.7	5.5	5.3	8.4	8.3
45	10.0	9.0	8.7	8.4	9.5	8.2	8.0	8.4	5.3	5.3	8.0	7.5
48	9.4	9.1	7.8	7.0	8.9	6.8	6.9	6.9	5.2	4.9	6.4	6.4
61	10.0	9.5	8.7	7.9	9.5	7.7	7.0	7.0	5.3	4.9	6.7	6.7
83	10.0	9.2	7.7	7.2	9.2	6.9	6.9	7.0	4.8	4.5	6.7	6.7
96	10.0	9.7	8.7	8.0	9.3	7.5	7.2	7.7	5.0	4.7	7.3	7.2
101	10.0	9.2	7.7	7.3	9.2	7.0	7.2	7.0	4.9	4.5	6.7	6.5
Paint-Water, White (120 sec)												
68	9.7	9.5	8.7	8.0	9.5	7.7	7.8	7.8	5.7	5.2	7.8	8.2
Paint-Water, Yellow (60 sec)												
9	10.0	9.2	8.9	8.5	9.3	7.5	7.7	7.5	5.0	5.0	7.7	7.0
10	9.0	8.7	7.9	7.9	9.0	7.2	7.5	7.2	4.9	4.5	6.5	6.5

TABLE 33. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
40	9.3	9.0	8.5	8.2	9.3	7.5	7.7	7.7	5.3	5.0	7.7	7.7
41	9.3	8.9	9.0	7.5	9.2	7.8	8.0	8.0	5.7	5.5	7.5	7.7
43	9.3	8.4	7.9	7.2	9.0	7.3	7.5	7.5	5.7	5.3	7.5	7.2
44	10.0	9.2	8.3	7.9	9.3	7.5	7.7	7.9	5.3	5.0	7.3	7.2
46	10.0	9.3	8.5	8.2	9.7	8.2	8.0	8.2	5.5	5.2	7.9	7.5
47	9.7	8.5	8.3	7.9	9.5	7.9	8.2	8.2	5.7	5.2	7.9	7.7
57	10.0	9.5	9.0	8.2	9.5	7.7	8.0	8.0	5.5	5.3	7.7	7.7
60	10.0	9.2	8.7	8.5	9.3	7.7	8.0	8.0	5.3	5.5	8.2	8.0
63	10.0	9.7	8.9	8.4	9.3	8.2	8.3	8.3	5.7	5.2	7.9	8.0
82	10.0	9.3	8.2	7.5	9.3	6.8	7.0	6.9	5.0	4.9	6.5	6.5
97	10.0	9.9	9.0	8.7	9.9	8.5	8.7	8.7	5.5	5.0	8.4	7.8
100	10.0	9.5	8.5	8.2	9.0	7.9	8.0	7.7	5.5	5.2	7.3	6.7
Paint-Water, Yellow (120 sec)												
69 Paint-Polyester, White	9.3	9.2	9.0	8.7	9.7	7.9	8.2	8.0	5.7	5.5	7.9	8.0
70 Paint-Polyester, Yellow	9.2	8.3	7.9	6.5	8.7	6.3	6.2	6.4	4.7	4.2	5.7	6.0
71 Thermoplastic-White, Alkyd	8.4	7.4	7.2	7.3	9.0	6.3	6.3	7.0	4.9	4.5	6.0	5.8
72 Thermoplastic-White, Cold Curing	9.7	9.6	9.0	8.0	9.7	8.0	8.2	8.3	6.0	5.0	8.3	8.3
78 Thermoplastic-Yellow, Alkyd	10.0	7.8	7.0	5.9	8.7	6.2	6.2	6.3	5.0	4.3	6.0	12.5
73 Thermoplastic-Yellow, Hydrocarbon	9.7	9.2	8.9	8.3	9.7	8.2	8.7	8.9	6.0	5.9	8.3	8.7
62 Permanent Tape, White	9.3	8.9	8.7	8.9	9.9	8.4	8.5	8.7	5.7	5.7	8.7	9.2
1	10.0	8.0	7.2	6.7	8.9	6.5	5.9	6.5	5.0	4.5	6.7	6.5

TABLE 33. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Kentucky) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, White (continued)												
16	10.0	10.0	9.7	9.5	10.0	9.2	9.3	8.7	5.3	5.5	8.7	8.7
19	10.0	9.7	9.5	9.2	10.0	9.0	8.9	8.9	6.0	6.2	9.0	8.9
20	10.0	9.5	9.3	9.2	10.0	8.9	8.7	8.7	5.9	6.0	8.9	8.9
27	10.0	7.4	6.3	6.3	8.7	5.7	5.3	6.0	4.8	4.9	5.7	6.2
30	9.3	8.3	7.7	7.2	9.2	7.5	7.0	7.0	5.3	5.0	7.2	6.9
32	10.0	9.3	8.7	8.2	9.7	8.0	8.2	7.9	5.7	5.0	7.9	7.9
58	10.0	9.3	9.0	9.0	9.9	8.5	8.5	8.4	5.3	5.2	8.2	8.3
75	10.0	8.9	8.2	8.0	9.5	8.0	7.8	7.9	5.3	5.2	7.7	7.7
Temporary Tape, White												
14	10.0	8.7	7.3	6.7	9.0	6.3	6.2	7.0	5.2	4.9	6.2	6.7
Permanent Tape, Yellow												
2	10.0	7.9	7.0	5.7	8.5	5.9	5.9	6.2	4.7	4.2	6.0	6.0
15	10.0	10.0	9.4	9.4	10.0	9.3	9.3	9.2	5.5	6.0	9.3	9.2
21	10.0	9.7	9.0	8.5	9.7	8.7	8.4	8.4	6.0	6.0	8.7	8.4
28	10.0	8.5	7.0	6.7	8.9	6.2	5.9	7.0	5.0	5.0	6.3	6.3
29	9.3	8.7	8.3	7.7	9.3	7.9	8.0	7.9	5.7	5.3	7.7	7.7
31	10.0	9.3	8.9	8.5	9.5	8.4	8.5	8.5	6.0	5.3	8.0	8.0
59	10.0	9.3	9.0	8.7	9.5	8.0	8.0	7.9	5.2	5.2	7.5	7.5
74	10.0	9.3	8.7	9.5	9.9	9.0	9.0	9.0	6.2	6.0	9.0	8.9
Temporary Tape, Yellow												
13	10.0	8.7	7.7	6.5	8.7	6.3	6.5	7.4	5.4	4.9	6.5	6.7

TABLE 34. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement (Alabama)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6	10.0	10.0	9.8	9.7	9.5	9.0	8.7	8.8	6.7	7.2	7.2	7.5
33	10.0	10.0	9.7	9.7	10.0	8.3	8.3	8.3	6.3	7.0	7.3	6.9
35	10.0	10.0	9.7	9.7	10.0	8.3	8.5	8.3	6.5	6.9	7.5	6.9
37	10.0	10.0	9.7	9.7	9.5	8.3	8.5	8.3	6.5	6.9	7.5	6.9
64	10.0	10.0	9.7	9.7	9.5	8.8	8.8	8.7	6.5	7.2	7.5	7.3
81	10.0	10.0	9.7	9.7	9.5	8.8	8.5	8.5	6.9	7.2	7.4	6.8
84	10.0	10.0	9.8	10.0	9.5	8.8	8.7	8.7	6.7	7.2	7.5	7.3
87	10.0	10.0	9.7	10.0	9.5	8.7	8.5	8.7	6.5	6.8	6.8	6.7
88	10.0	10.0	9.7	10.0	9.3	8.0	8.3	8.6	6.1	6.5	7.2	6.7
91	9.9	10.0	9.6	9.9	9.5	8.8	8.7	8.7	6.7	7.0	7.2	7.0
92	10.0	10.0	9.5	10.0	8.8	8.3	8.0	8.2	5.5	5.6	6.7	6.0
93	10.0	9.7	9.5	10.0	8.8	7.8	8.2	8.2	5.5	5.6	6.9	6.5
98	10.0	10.0	9.6	10.0	9.3	8.2	8.5	8.3	6.3	6.7	7.2	6.9
103	10.0	10.0	10.0	10.0	10.0	9.3	9.0	8.7	8.2	8.2	8.7	7.7
Paint-Solvent, White (120 sec)												
66	10.0	10.0	9.8	9.7	9.7	8.5	8.5	8.7	6.9	6.7	7.9	7.5
Paint-Solvent, White (3 min or more)												
11	10.0	10.0	9.7	9.7	10.0	8.2	8.2	8.5	5.9	6.0	6.7	6.3
94	10.0	10.0	9.7	10.0	9.3	8.4	8.5	8.3	6.4	6.9	7.4	6.9
95	10.0	10.0	9.7	10.0	9.3	8.8	8.7	8.3	6.5	6.8	7.7	7.2
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	10.0	10.0	10.0	9.7	9.2	9.0	8.2	7.9	8.0	8.2
8	10.0	10.0	10.0	10.0	9.0	9.7	9.2	9.0	8.0	8.0	8.0	8.2
34	10.0	10.0	10.0	9.8	9.5	9.5	8.8	9.0	7.5	7.7	7.9	7.7
36	10.0	10.0	10.0	10.0	9.5	9.7	9.0	9.0	8.2	8.2	8.2	7.8

TABLE 34. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	10.0	10.0	10.0	10.0	9.7	9.2	9.0	8.0	8.0	8.0	8.2
65	10.0	10.0	10.0	10.0	9.8	9.3	9.3	9.2	8.2	8.5	8.7	8.7
80	10.0	10.0	10.0	10.0	10.0	9.5	9.2	9.2	8.5	8.2	8.5	8.0
85	10.0	10.0	10.0	10.0	9.8	9.8	9.3	9.2	8.1	8.4	8.7	8.3
86	10.0	10.0	10.0	10.0	9.8	9.7	9.2	9.3	8.5	8.3	8.5	8.0
89	10.0	10.0	10.0	10.0	9.8	9.5	9.2	9.3	8.5	8.3	8.5	8.0
99	10.0	10.0	10.0	10.0	10.0	9.5	9.2	8.7	8.5	8.0	8.7	7.7
102	10.0	10.0	9.6	10.0	9.3	8.3	8.5	8.5	6.5	7.0	7.9	7.0
Paint-Solvent, Yellow (120 sec)												
67	10.0	10.0	10.0	10.0	10.0	9.7	9.5	9.3	8.4	8.7	8.9	8.5
Paint-Solvent, Yellow (3 min or more)												
12	10.0	10.0	10.0	10.0	9.5	9.5	9.2	8.8	7.7	7.5	8.2	7.5
Paint-Water, White (60 sec)												
5	8.7	8.7	8.5	8.2	8.3	7.8	7.3	6.8	5.5	5.7	6.4	6.0
39	10.0	10.0	9.6	9.7	9.5	8.0	8.3	8.0	6.4	7.0	7.0	6.9
42	10.0	10.0	9.7	9.7	9.5	8.2	8.3	8.0	6.2	7.0	7.2	6.9
45	10.0	10.0	9.8	9.7	9.7	8.8	8.7	8.3	7.4	7.5	7.9	7.7
48	10.0	10.0	9.7	9.7	9.5	8.2	7.8	8.3	6.3	6.9	7.1	6.7
61	10.0	10.0	9.7	9.7	9.5	8.7	8.5	8.7	6.7	6.9	7.2	7.4
83	7.2	7.2	6.5	5.7	7.3	6.6	6.4	5.2	4.7	4.9	5.0	5.3
96	10.0	10.0	9.7	9.8	9.3	8.7	8.2	7.8	6.4	6.5	6.5	6.5
Paint-Water, White (120 sec)												
68	8.0	7.8	7.8	7.5	7.4	7.7	7.0	6.3	6.0	5.7	5.7	5.9
Paint-Water, Yellow (60 sec)												
9	8.8	9.0	9.2	8.8	9.2	8.5	7.9	7.3	7.0	6.3	6.9	6.7
10	8.7	9.0	8.8	8.5	9.5	8.7	7.7	7.2	6.4	6.7	6.7	6.5
40	10.0	9.8	9.8	9.8	10.0	9.5	8.7	8.8	7.9	8.0	8.0	7.5

TABLE 34. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
41	8.7	8.8	9.2	9.0	8.7	8.5	7.5	7.3	6.6	6.9	6.7	6.3
43	9.6	9.7	9.7	9.8	10.0	9.5	8.5	8.7	7.5	7.9	8.2	7.5
44	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.2	7.9	8.4	8.3	8.2
46	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.2	7.9	8.4	8.3	8.2
47	10.0	9.9	9.9	10.0	10.0	9.7	9.2	9.1	7.5	8.6	8.0	8.3
57	8.2	8.2	8.3	8.0	8.1	7.8	6.7	6.7	5.9	6.2	6.2	6.0
60	7.5	7.8	7.8	7.5	7.5	7.7	7.0	7.0	6.0	5.9	6.7	6.5
63	10.0	10.0	10.0	10.0	9.8	9.8	9.3	9.3	8.5	8.9	8.7	8.7
82	6.3	6.8	6.2	5.8	6.8	6.3	6.3	5.7	5.5	5.5	5.7	5.2
97	7.4	7.5	7.5	6.4	7.6	7.3	6.7	6.5	6.0	6.0	5.5	5.9
Paint-Water, Yellow (120 sec)												
69	8.7	8.7	8.9	8.8	8.7	8.3	7.2	7.3	7.2	6.9	7.0	6.9
Paint-Polyester, White												
70	10.0	10.0	9.7	9.7	9.5	8.7	7.3	7.3	6.0	5.8	6.0	5.7
Paint-Polyester, Yellow												
71	9.9	10.0	9.9	9.8	9.8	9.3	8.0	8.2	7.0	7.3	7.0	6.9
Thermoplastic-White, Alkyd												
72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.4	9.0	9.5	9.0
Thermoplastic-White, Cold Curing												
78	10.0	9.8	9.7	9.7	9.7	9.8	9.3	9.1	8.7	8.0	8.5	8.0
Thermoplastic-Yellow, Alkyd												
73	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.1	9.7	9.3
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	10.0	10.0	10.0
Permanent Tape, White												
1	10.0	9.3	9.3	9.3	9.0	9.0	9.0	9.0	8.3	7.9	7.9	7.4
16	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	9.5	9.5	9.7	9.2
19	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.4	9.3	8.7

TABLE 34. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Permanent Tape, White(continued)												
20	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.8	9.3	9.2	9.3	8.7
27	10.0	9.3	9.3	9.3	9.0	9.5	9.0	8.3	7.7	7.9	7.7	7.4
30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.5	8.7
32	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.5	9.7	9.0
58	10.0	10.0	10.0	10.0	10.0	9.8	9.5	10.0	9.2	9.0	9.2	8.6
75	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.3	9.5	9.3	9.2
Temporary Tape, White												
14	10.0	9.7	9.7	9.3	9.3	9.5	9.3	8.8	8.0	8.2	7.7	7.3
Permanent Tape, Yellow												
2	10.0	9.3	9.3	9.3	9.0	9.5	9.3	9.0	8.3	7.9	7.7	7.3
15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.9	9.7	9.5
21	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	9.7	9.2	9.3	9.0
28	10.0	9.7	9.7	9.7	9.3	10.0	9.7	8.7	8.2	8.2	8.3	7.7
29	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.7	9.3
31	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.7	9.3
59	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.2	9.0
74	10.0	10.0	10.0	10.0	10.0	10.0	9.9	10.0	9.7	9.5	9.3	9.5
Temporary Tape, Yellow												
13	10.0	10.0	9.7	9.7	9.3	10.0	9.7	8.8	8.4	8.2	8.3	7.7

TABLE 35. Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6	10.0	9.3	9.0	9.0	8.0	8.3	8.3	8.0	8.0	8.3	8.0	8.0
33	10.0	8.7	7.7	8.0	7.3	7.3	6.3	6.7	7.3	6.7	7.3	6.7
35	10.0	9.3	8.2	7.8	6.7	7.3	6.7	7.0	7.0	6.7	7.0	6.7
37	10.0	8.7	7.2	7.8	6.8	7.5	7.2	7.2	6.8	6.8	7.2	7.2
64	10.0	9.3	8.7	8.7	7.5	8.2	7.8	7.8	7.5	8.2	7.8	7.7
81	10.0	9.3	8.2	8.2	7.7	8.0	8.0	8.0	8.0	8.0	8.0	8.0
84	10.0	8.7	7.7	8.0	7.3	7.3	7.3	7.3	7.3	7.3	7.7	7.7
87	10.0	10.0	9.3	9.7	8.3	9.0	8.7	9.3	9.7	9.3	9.0	9.3
88	10.0	9.7	9.3	10.0	8.2	8.8	8.8	9.2	8.8	8.0	8.0	8.0
98	10.0	9.3	8.7	8.7	8.0	8.7	8.0	8.7	8.3	8.3	8.3	8.3
103	10.0	8.7	7.7	7.7	7.3	8.3	7.7	7.7	7.3	7.0	7.0	7.0
Paint-Solvent, White (120 sec)												
66	10.0	9.7	9.0	9.3	8.0	8.7	8.3	9.0	8.7	8.7	8.3	8.3
Paint-Solvent, White (3 min or more)												
11	10.0	9.3	8.7	8.7	8.0	8.3	8.0	7.3	7.3	7.7	7.3	7.7
Paint-Solvent, Yellow (60 sec)												
7	10.0	9.3	9.0	9.7	8.3	9.0	8.7	8.3	8.7	8.3	9.0	8.3
8	10.0	7.7	7.7	7.7	7.3	7.3	7.3	7.3	7.3	7.0	6.7	6.3
34	10.0	8.7	8.3	8.3	7.3	8.3	7.3	7.3	7.7	7.7	7.7	7.3
36	10.0	8.7	8.3	8.3	7.3	8.3	7.7	7.7	8.3	8.0	8.0	7.3
38	10.0	8.2	7.5	7.7	6.7	7.7	7.3	7.3	7.7	7.7	7.3	7.0
65	9.7	9.3	9.0	8.7	8.3	9.0	9.0	8.7	8.3	8.3	8.3	8.0
80	10.0	9.3	8.7	9.0	7.7	8.7	8.3	8.0	8.0	8.0	7.7	7.0
85	10.0	8.7	8.7	8.7	8.3	9.0	9.0	8.3	8.7	8.7	9.0	8.3
86	10.0	9.7	9.0	9.7	9.0	9.3	9.3	9.7	9.7	9.7	9.3	9.3

TABLE 35. Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
89	10.0	9.7	9.3	9.7	8.7	9.3	8.7	9.7	9.3	9.7	9.0	8.7
99	10.0	9.3	8.7	9.0	7.7	8.3	8.0	8.0	8.7	8.0	7.7	7.0
102	10.0	9.0	8.3	8.8	7.5	8.5	8.3	7.7	8.0	7.3	7.0	7.0
Paint-Solvent, Yellow (120 sec)												
67	10.0	9.7	9.3	9.3	8.7	9.3	9.3	9.3	9.0	9.0	9.3	9.0
Paint-Solvent, Yellow (3 min or more)												
12	10.0	9.0	8.3	8.7	7.3	8.3	8.0	7.0	7.3	7.0	7.3	7.0
Paint-Water, White (60 sec)												
5	10.0	9.3	8.3	9.7	8.3	9.0	8.3	8.7	8.7	8.3	7.7	7.7
39	10.0	9.7	8.7	9.7	8.7	9.0	9.0	9.0	8.3	8.3	8.3	8.3
42	10.0	9.3	9.3	9.7	8.7	9.0	9.0	9.0	8.7	8.7	9.0	9.3
45	10.0	9.7	9.3	9.3	9.0	9.0	9.0	9.0	8.7	8.7	8.7	9.0
48	10.0	8.7	8.7	8.7	7.7	8.0	8.3	7.7	7.7	7.3	7.3	8.0
61	10.0	9.7	9.0	9.3	8.3	9.0	8.7	8.7	8.3	8.3	8.7	8.3
83	10.0	9.3	8.3	8.7	8.7	9.0	9.0	7.7	7.7	8.0	7.7	8.0
96	10.0	9.7	9.0	9.3	8.7	9.0	8.7	8.7	8.3	8.0	8.7	8.7
101	10.0	9.0	8.3	8.7	7.7	8.7	8.0	8.3	8.0	8.0	8.0	8.0
Paint-Water, White (120 sec)												
68	10.0	9.7	8.3	9.3	8.7	8.7	8.3	8.3	8.3	8.0	8.3	8.0
Paint-Water, Yellow (60 sec)												
9	10.0	9.7	9.0	9.7	8.3	9.3	9.0	8.7	9.0	9.3	9.3	9.0
10	10.0	8.2	7.8	8.3	7.3	6.8	7.2	6.8	7.2	7.0	6.3	6.7
40	10.0	9.7	9.0	9.7	8.3	8.3	8.7	8.3	8.7	8.7	8.7	8.3
41	10.0	9.3	9.3	9.0	8.3	8.3	8.7	8.7	8.3	9.0	9.0	8.7
43	10.0	9.3	9.3	9.0	8.0	8.0	8.3	7.7	8.3	8.7	8.0	7.7
44	10.0	9.3	8.8	9.2	8.5	8.5	8.8	8.5	8.7	8.3	8.3	8.3
46	10.0	9.3	9.0	9.3	8.7	8.7	8.7	9.0	9.0	9.3	9.0	9.0

TABLE 35. Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
47	10.0	9.3	9.0	8.7	8.7	8.7	8.0	8.3	8.3	8.7	8.3	8.0
57	10.0	9.7	9.2	9.2	8.7	8.7	8.7	8.3	8.3	8.7	8.3	8.0
60	9.8	8.7	8.7	9.0	8.3	8.3	8.3	8.3	8.7	9.0	9.0	8.3
63	10.0	9.3	8.7	9.3	8.3	9.0	8.3	7.7	8.0	8.3	8.0	8.3
82	10.0	9.0	8.7	9.3	8.0	8.7	8.7	7.7	8.0	8.0	8.0	7.7
97	10.0	9.0	8.7	9.3	8.0	8.7	8.7	8.3	8.7	9.0	8.7	8.7
100	10.0	9.5	9.2	9.3	8.7	8.7	8.3	8.3	8.3	8.7	7.7	8.0
Paint-Water, Yellow (120 sec)												
69 Paint-Polyester, White	10.0	9.3	9.0	9.7	9.0	8.7	9.0	9.0	9.0	9.3	9.3	9.0
70 Paint-Polyester, Yellow	10.0	9.3	9.3	9.3	8.3	8.7	8.3	9.0	8.7	9.3	9.0	9.3
71 Thermoplastic-White, Alkyd	10.0	9.7	9.3	9.7	9.0	9.3	9.3	9.3	8.7	9.7	9.3	8.3
72 Thermoplastic-White, Cold Curing	10.0	9.7	9.0	9.0	8.3	8.7	8.7	8.3	8.3	8.0	7.7	8.0
78 Thermoplastic-Yellow, Alkyd	10.0	8.8	9.5	9.5	9.2	8.8	9.2	9.2	8.8	8.8	8.8	8.8
73 Thermoplastic-Yellow, Hydrocarbon	10.0	9.7	9.0	8.7	8.7	9.3	9.0	9.3	9.0	8.3	8.7	7.7
62	10.0	9.7	9.3	9.7	9.3	9.3	9.0	9.3	9.0	9.0	9.0	9.0

TABLE 36. Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6	9.7	10.0	10.0	9.3	9.3	9.0	7.3	7.7	6.3	6.7	6.0	5.7
33	9.3	9.0	8.7	8.3	8.3	7.0	7.3	7.7	6.7	6.7	6.3	6.3
35	9.7	9.7	9.0	9.3	9.3	8.7	8.0	8.3	7.7	7.3	7.0	6.7
37	9.7	9.3	9.0	9.0	8.7	9.0	8.3	7.7	7.3	7.0	7.0	6.7
64	9.7	10.0	9.0	9.3	9.3	8.0	8.0	8.0	7.3	7.0	6.7	6.7
81	8.0	7.7	7.7	7.7	7.3	7.3	7.3	7.0	6.7	5.7	6.0	5.7
84	9.7	10.0	9.3	9.3	9.3	8.0	8.0	8.0	7.3	7.0	6.7	6.7
87	9.7	9.7	9.3	9.0	9.7	8.7	8.7	8.3	7.7	7.0	6.7	7.3
88	10.0	9.7	9.7	9.7	9.3	9.0	8.7	8.7	7.7	8.0	7.3	7.3
91	10.0	9.7	9.7	10.0	9.3	9.0	8.3	7.7	7.7	5.7	5.7	5.3
92	8.7	8.7	9.0	8.7	8.0	7.3	6.7	7.0	6.3	5.7	5.0	5.3
93	10.0	10.0	9.3	9.3	9.3	9.0	7.7	7.7	6.7	6.3	5.3	5.7
98	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	8.0	7.3	6.7	6.7
103	9.0	9.0	8.7	9.0	8.7	8.3	8.3	8.0	7.3	7.7	6.7	7.0
Paint-Solvent, White (120 sec)												
66	9.7	9.7	9.7	9.3	9.0	8.3	8.3	8.3	7.7	7.7	7.3	7.3
Paint-Solvent, White (3 min or more)												
11	9.7	10.0	10.0	9.3	9.3	9.0	7.3	7.7	6.3	6.7	6.0	5.7
94	8.7	8.7	8.7	9.3	8.7	8.0	8.3	8.0	7.7	6.3	6.3	6.3
95	9.0	9.0	9.0	8.7	8.7	9.0	8.7	8.3	8.0	7.0	6.7	7.0
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.0	8.7	9.0	8.3	8.3
8	10.0	10.0	10.0	10.0	10.0	9.3	8.7	9.0	8.3	8.3	8.0	7.7
34	9.7	10.0	9.0	9.3	9.3	8.7	8.0	8.3	7.3	7.3	6.7	7.0
36	10.0	10.0	10.0	9.7	10.0	9.3	8.7	8.7	8.3	8.3	8.0	7.3

TABLE 36.

Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	9.7	10.0	9.3	9.3	10.0	9.3	8.7	8.7	8.0	8.3	7.3	7.3
65	9.3	9.7	9.7	10.0	9.7	9.0	8.7	9.3	8.0	7.7	7.7	7.3
80	9.0	9.3	9.0	9.7	9.0	8.3	8.3	8.3	7.7	7.3	7.3	7.7
85	10.0	10.0	9.7	10.0	10.0	9.3	8.7	9.3	8.3	8.0	8.0	7.7
86	10.0	9.7	9.7	10.0	9.7	9.7	9.7	9.0	8.3	8.3	7.7	7.7
89	10.0	10.0	10.0	10.0	9.7	9.7	9.7	8.7	8.3	8.3	7.7	7.7
99	9.7	10.0	10.0	10.0	10.0	9.3	9.0	9.0	8.0	7.7	7.7	7.7
102	10.0	9.0	9.0	8.7	8.7	7.7	7.7	7.7	7.3	6.3	5.7	6.0
Paint-Solvent, Yellow (120 sec)												
67	9.3	9.7	9.7	10.0	10.0	9.7	9.0	9.3	8.7	8.0	7.7	8.0
Paint-Solvent, Yellow (3 min or more)												
12	9.7	10.0	10.0	10.0	10.0	9.7	9.3	9.0	8.7	8.7	8.3	7.7
Paint-Water, White (60 sec)												
5	7.7	7.3	7.7	7.3	7.3	6.0	6.3	6.3	6.3	4.7	4.3	5.0
39	9.3	9.7	8.7	8.7	8.7	8.0	8.3	8.7	7.7	7.7	7.3	7.3
42	9.3	10.0	9.0	9.3	9.0	8.7	8.3	9.0	7.7	7.3	7.3	7.0
45	10.0	10.0	10.0	9.7	9.7	9.0	9.0	9.0	7.7	8.0	7.7	7.7
48	10.0	10.0	10.0	9.7	9.7	9.3	8.7	9.0	8.0	7.7	7.3	7.3
61	10.0	10.0	10.0	9.7	9.7	9.0	8.0	9.0	7.7	7.7	7.3	7.0
83	6.0	5.7	5.7	5.3	6.3	5.0	4.3	5.3	4.0	3.7	3.7	4.3
96	5.7	5.3	5.3	5.3	5.7	5.0	3.7	5.0	2.3	3.7	3.3	3.7
Paint-Water, White (120 sec)												
68	6.7	6.7	6.7	6.7	5.7	6.0	5.7	6.0	5.0	4.7	4.7	5.0
Paint-Water, Yellow (60 sec)												
9	8.7	8.7	8.7	8.7	8.0	7.7	8.0	7.7	7.0	6.7	6.7	6.3
10	7.3	7.3	7.3	7.3	7.3	6.7	7.3	7.0	6.7	6.0	6.0	5.7
40	8.3	8.3	8.7	8.3	8.0	7.0	6.7	7.7	7.0	6.0	6.0	6.3

TABLE 36. Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
41	8.3	8.3	8.0	8.7	8.0	7.7	7.3	8.3	7.0	6.3	6.3	6.3
43	9.0	9.0	9.0	9.3	9.0	8.0	8.7	8.0	7.7	7.0	7.3	7.3
44	9.7	10.0	10.0	10.0	10.0	9.0	9.0	9.0	8.7	8.7	8.0	8.0
46	10.0	10.0	10.0	10.0	10.0	9.0	9.0	9.0	8.7	8.7	8.0	8.0
47	9.3	9.3	9.3	9.3	9.0	7.0	8.7	8.0	8.0	7.7	7.0	7.3
57	8.7	8.3	8.3	8.3	7.7	7.0	6.7	7.7	7.3	6.0	6.0	6.3
60	4.3	3.7	3.3	3.3	3.7	3.0	3.0	3.7	2.3	3.0	2.7	3.0
63	10.0	8.3	10.0	10.0	10.0	9.3	9.0	9.3	8.3	8.3	8.3	8.3
82	3.7	3.3	2.7	2.3	3.3	2.3	2.3	3.3	1.7	2.3	2.3	2.3
97	5.3	5.0	4.7	5.0	5.0	4.0	3.7	4.7	2.3	3.7	3.3	3.7
Paint-Water, Yellow (120 sec)												
69 Paint-Polyester, White	7.3	6.0	6.3	7.0	7.3	5.3	5.7	6.3	5.7	5.3	5.7	6.0
70 Paint-Polyester, Yellow	8.7	7.7	7.3	6.7	6.7	6.0	5.3	6.7	5.7	5.0	5.3	5.0
71 Thermoplastic-White, Alkyd	8.7	8.0	8.0	7.3	7.3	6.3	5.7	7.0	6.0	6.0	5.0	5.7
72 Thermoplastic-White, Cold Curing	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	10.0	9.7
78 Thermoplastic-Yellow, Alkyd	10.0	10.0	10.0	9.3	10.0	10.0	10.0	10.0	9.7	9.7	9.3	9.3
73 Thermoplastic-Yellow, Hydrocarbon	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	9.7	9.0
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.7	9.3

TABLE 37. Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Kentucky)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6	10.0	9.7	9.0	9.0	10.0	8.7	8.0	8.3	5.0	5.3	8.0	8.3
33	10.0	9.3	7.3	6.7	9.0	6.3	6.3	7.0	4.3	5.0	6.3	6.3
35	10.0	8.7	7.0	6.7	8.7	6.3	5.7	6.3	4.3	4.3	6.0	6.0
37	9.3	9.3	7.0	7.0	9.0	6.7	6.7	7.0	5.3	4.7	7.0	7.0
64	10.0	9.7	9.0	9.0	10.0	8.3	8.3	9.0	5.7	5.3	8.3	8.3
81	10.0	10.0	8.7	8.7	9.7	8.0	8.0	7.7	5.7	4.7	7.3	7.3
84	10.0	10.0	9.0	9.0	10.0	8.3	8.3	8.3	5.7	5.3	8.3	8.3
87	10.0	10.0	9.7	9.7	10.0	9.0	9.0	9.3	5.7	5.7	9.0	9.0
88	10.0	10.0	9.3	9.7	10.0	9.0	9.0	9.3	6.0	5.3	8.7	8.7
91	10.0	9.7	9.7	9.3	10.0	8.7	8.3	8.7	5.7	5.0	8.7	8.3
92	10.0	9.3	9.0	8.0	9.3	7.0	6.7	6.7	4.3	4.3	6.0	5.3
93	10.0	9.7	9.0	8.3	9.7	7.7	7.3	6.7	4.3	4.3	6.0	5.3
98	10.0	10.0	9.0	9.0	9.8	7.8	7.3	7.3	5.0	4.7	7.0	6.3
103	10.0	9.7	9.0	8.7	10.0	8.3	7.7	7.7	5.0	4.7	8.0	8.0
Paint-Solvent, White (120 sec)												
66	10.0	10.0	9.3	9.3	10.0	8.7	8.7	9.0	5.7	5.7	8.3	8.3
Paint-Solvent, White (3 min or more)												
11	10.0	9.3	8.7	8.7	10.0	8.3	7.3	7.3	5.0	4.7	6.7	6.3
94	10.0	10.0	9.7	9.7	10.0	9.0	8.7	9.0	6.0	5.3	9.0	9.0
95	10.0	10.0	9.7	9.7	10.0	9.0	9.0	9.3	6.0	5.3	8.7	8.3
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	9.7	9.3	10.0	8.7	9.0	8.7	5.7	6.0	8.0	7.7
8	8.7	9.7	9.0	9.3	10.0	8.7	7.7	8.0	5.3	5.3	7.0	7.7
34	10.0	9.7	7.8	7.7	9.3	7.3	7.0	7.3	5.0	4.3	7.7	7.0
36	10.0	9.2	8.0	7.7	9.3	7.0	7.3	7.3	5.3	4.7	7.0	7.3

TABLE 37.

Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland
Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	8.8	7.7	7.3	9.0	6.7	6.3	7.0	5.0	4.3	6.7	6.7
65	10.0	10.0	9.0	8.5	9.8	8.5	8.2	8.2	5.3	5.0	8.0	8.0
80	10.0	10.0	8.7	8.7	9.7	8.3	7.7	7.7	5.0	5.0	7.7	7.7
85	10.0	9.7	9.3	9.3	9.7	8.3	8.3	8.3	5.7	5.3	8.3	8.0
86	10.0	10.0	9.7	9.7	9.7	9.0	9.0	9.0	6.3	5.3	8.3	8.0
89	10.0	10.0	9.7	9.7	9.7	9.0	9.0	8.7	6.3	5.3	8.0	8.0
99	10.0	10.0	9.7	9.7	10.0	9.3	9.0	9.0	5.3	5.7	9.0	8.3
102	10.0	9.0	8.0	8.0	9.3	7.3	7.3	7.3	5.3	4.7	7.3	7.0
Paint-Solvent, Yellow (120 sec)												
67	10.0	9.7	9.7	9.3	10.0	9.0	8.3	8.7	6.0	6.0	8.0	8.3
Paint-Solvent, Yellow (3 min or more)												
12	10.0	10.0	8.7	9.3	10.0	8.3	8.3	9.0	5.3	5.3	7.3	7.3
Paint-Water, White (60 sec)												
5	10.0	10.0	9.7	9.7	10.0	9.0	9.0	8.7	6.0	5.3	8.3	8.7
39	10.0	9.0	8.7	9.0	10.0	8.7	8.7	9.0	5.7	5.3	8.3	8.7
42	10.0	9.3	9.7	9.7	10.0	9.0	8.3	8.7	5.3	5.7	8.7	9.0
45	10.0	9.0	8.7	9.0	10.0	8.7	8.3	8.7	5.3	5.3	8.0	8.3
48	10.0	9.3	9.0	9.0	10.0	8.7	9.0	9.0	5.3	5.7	7.0	7.0
61	10.0	10.0	9.7	9.7	10.0	9.0	9.0	9.3	6.0	5.7	8.7	8.3
83	10.0	10.0	8.7	9.0	10.0	8.3	8.7	8.3	5.0	5.3	7.3	8.0
96	10.0	10.0	9.3	9.7	10.0	9.0	9.0	9.3	6.0	5.3	7.3	7.3
101	10.0	9.3	9.7	9.7	10.0	9.7	9.3	9.0	6.3	5.3	8.3	8.7
Paint-Water, White (120 sec)												
68	10.0	9.7	8.7	9.7	10.0	8.7	8.7	9.0	6.3	5.7	9.0	9.0
Paint-Water, Yellow (60 sec)												
9	10.0	10.0	8.7	8.7	10.0	9.0	8.3	8.3	5.0	4.7	8.3	8.3
10	9.3	9.0	8.3	9.0	9.7	9.0	8.3	8.0	5.7	5.3	7.3	7.3

TABLE 37. Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
40	9.3	9.7	9.0	9.0	9.7	8.7	8.3	8.7	5.7	6.0	8.0	8.0
41	9.3	9.7	9.0	8.7	9.7	8.7	8.3	8.3	5.7	5.7	8.0	8.0
43	9.3	9.3	8.3	9.0	9.3	8.0	8.3	8.3	5.7	5.7	7.3	7.3
44	10.0	9.7	9.0	9.0	9.7	8.7	9.0	8.3	5.3	5.7	8.0	7.7
46	10.0	10.0	9.3	9.7	10.0	9.0	9.3	9.0	6.3	5.7	9.3	8.7
47	10.0	10.0	9.3	9.0	9.7	8.3	9.0	8.7	6.0	5.7	8.7	8.7
57	10.0	10.0	9.3	9.2	9.3	8.3	8.7	8.3	6.0	5.7	8.3	8.0
60	10.0	9.8	8.5	8.7	9.7	8.7	8.7	8.7	5.7	5.3	8.3	8.3
63	10.0	10.0	9.0	9.7	9.7	9.0	8.7	8.7	5.3	6.0	8.7	8.3
82	10.0	9.0	9.0	9.3	9.3	8.3	8.7	8.7	5.7	5.3	8.0	7.7
97	10.0	10.0	9.3	9.0	9.3	8.3	8.7	8.7	6.0	5.7	8.3	8.3
100	10.0	8.7	8.7	8.7	9.0	8.3	8.3	8.3	6.0	5.7	7.7	7.7
Paint-Water, Yellow (120 sec)												
69	10.0	10.0	9.3	9.3	10.0	8.0	9.0	9.3	5.3	6.0	8.3	8.3
Paint-Polyester, White												
70	9.3	8.7	9.0	9.3	10.0	8.7	8.7	9.0	5.7	6.0	7.7	7.7
Paint-Polyester, Yellow												
71	9.0	8.7	8.7	9.3	10.0	9.0	8.3	8.7	6.0	6.0	8.3	8.3
Thermoplastic-White, Alkyd												
72	10.0	9.0	9.3	9.0	10.0	9.0	8.3	9.0	5.7	5.3	8.7	8.3
Thermoplastic-White, Cold Curing												
78	10.0	9.0	9.7	9.7	10.0	9.0	9.0	9.0	5.7	5.7	8.3	8.3
Thermoplastic-Yellow, Alkyd												
73	10.0	8.7	9.0	9.0	9.7	8.7	8.7	9.0	6.0	5.7	8.0	8.3
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	9.7	9.7	9.3	10.0	9.0	9.0	9.0	6.0	6.0	8.3	8.7

TABLE 38. Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, White (60 sec)												
6	10.0	10.0	10.0	10.0	9.7	9.7	9.3	9.3	8.3	8.3	8.0	8.0
33	10.0	10.0	10.0	10.0	10.0	9.7	8.7	8.7	8.0	7.7	7.3	7.7
35	10.0	10.0	10.0	10.0	10.0	9.7	8.7	9.0	7.7	7.7	7.3	7.7
37	10.0	10.0	10.0	10.0	10.0	9.7	8.7	9.0	8.0	7.7	7.3	7.7
64	10.0	10.0	10.0	10.0	9.7	9.7	8.7	9.0	8.3	7.7	8.3	7.7
81	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.3	8.0	8.0	8.3	8.3
84	10.0	10.0	10.0	10.0	9.7	9.3	9.0	9.0	7.7	7.7	7.7	7.3
87	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	8.0	8.3	8.3
88	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	7.7	8.0	8.0
91	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	8.0	8.3	8.0
92	10.0	10.0	10.0	9.7	9.7	9.3	9.0	8.7	7.3	6.3	6.3	6.0
93	10.0	10.0	10.0	9.7	9.7	9.3	8.7	8.3	7.3	6.3	6.3	6.0
98	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.0	7.3	7.3	7.3
103	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.3	8.7	9.0	8.3
Paint-Solvent, White (120 sec)												
66	10.0	9.7	10.0	10.0	10.0	9.3	9.0	8.7	8.3	7.3	7.3	7.3
Paint-Solvent, White (3 min or more)												
11	10.0	10.0	10.0	10.0	9.7	9.3	8.3	8.3	7.3	7.3	7.0	6.3
94	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	7.7	7.7	7.3	7.7
95	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	7.0	5.7	6.0	5.7
Paint-Solvent, Yellow (60 sec)												
7	10.0	10.0	10.0	10.0	10.0	9.7	9.0	8.7	8.0	8.3	8.7	7.7
8	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.0	8.3	8.3	8.7	8.0
34	10.0	10.0	9.7	9.7	10.0	9.7	8.7	8.7	7.7	7.7	7.7	7.7
36	10.0	10.0	10.0	9.7	10.0	9.7	9.0	9.0	8.0	8.3	8.7	7.7

TABLE 38.

Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Solvent, Yellow (60 sec)(continued)												
38	10.0	10.0	10.0	9.7	10.0	9.7	9.0	9.0	8.0	8.3	8.7	7.7
65	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.3	8.3	8.7	8.3	8.0
80	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.0	8.0	8.7	9.0	8.3
85	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	8.7	8.7	8.7	8.0
86	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.7	8.7	8.3	9.0	8.3
89	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.7	8.7	8.3	9.0	8.3
99	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.3	8.7	9.0	8.3
102	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.0	8.0	7.7	7.7	7.3
Paint-Solvent, Yellow (120 sec)												
67	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.3	8.7	8.0	8.0	8.0
Paint-Solvent, Yellow (3 min or more)												
12	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.0	8.3	8.0	8.0	7.3
Paint-Water, White (60 sec)												
5	8.7	9.0	8.7	8.7	8.7	8.3	8.3	7.7	6.7	6.7	6.3	6.7
39	10.0	9.7	10.0	10.0	10.0	9.3	9.0	9.0	8.3	7.7	8.0	8.0
42	10.0	9.7	10.0	9.7	10.0	9.0	9.0	8.7	7.3	7.7	7.0	7.0
45	10.0	10.0	10.0	10.0	10.0	9.3	9.3	9.0	8.3	8.0	8.0	8.0
48	10.0	10.0	10.0	9.7	10.0	9.7	9.0	8.7	8.0	7.7	7.7	7.0
61	10.0	10.0	10.0	10.0	9.7	9.7	9.3	9.0	8.3	8.7	8.0	8.0
83	4.3	4.3	5.0	5.0	4.3	5.0	4.3	3.7	3.3	3.0	3.0	3.3
96	10.0	10.0	10.0	10.0	10.0	9.3	9.0	8.7	8.3	7.3	6.7	6.3
Paint-Water, White (120 sec)												
68	6.3	6.0	5.7	5.7	5.7	5.7	5.7	4.7	5.0	4.3	4.0	4.7
Paint-Water, Yellow (60 sec)												
9	9.3	9.7	9.3	9.3	9.3	9.0	8.7	8.3	6.7	7.0	6.3	6.3
10	7.3	8.3	8.3	7.7	8.7	7.7	7.3	7.0	6.0	6.0	5.7	5.7
40	9.7	10.0	10.0	9.7	9.7	9.7	9.0	8.7	7.0	7.0	7.3	7.3

TABLE 38. Appearance Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Alabama)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	MAY 1990	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991
Paint-Water, Yellow (60 sec)(continued)												
41	9.7	9.7	10.0	9.7	9.7	9.7	9.0	8.3	7.0	6.7	6.7	7.0
43	9.7	9.7	10.0	9.7	9.7	9.7	9.0	8.7	7.0	6.7	6.7	7.0
44	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.3	8.0	8.0	8.0
46	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.3	8.0	8.3	7.7
47	10.0	9.7	10.0	10.0	10.0	10.0	9.0	9.3	8.0	7.7	6.7	6.7
57	8.7	8.7	9.0	8.3	9.0	8.0	7.7	7.7	6.7	6.3	6.0	6.0
60	6.3	6.0	6.0	6.3	6.0	6.7	6.3	5.3	5.7	5.7	5.0	5.3
63	10.0	10.0	10.0	10.0	10.0	9.7	9.0	9.3	8.7	9.0	8.7	8.3
82	4.3	4.0	3.7	4.0	3.7	4.7	3.7	3.3	3.3	2.7	2.7	2.3
97	4.7	4.7	5.0	5.0	4.3	5.0	4.0	3.7	3.7	3.0	3.0	3.0
Paint-Water, Yellow (120 sec)												
69	6.3	6.3	6.7	6.0	6.3	6.3	6.0	5.0	5.3	5.0	3.7	4.7
Paint-Polyester, White												
70	10.0	9.3	9.0	7.7	7.3	6.7	6.0	4.7	5.0	4.3	4.0	4.7
Paint-Polyester, Yellow												
71	10.0	9.0	8.0	8.0	8.0	7.3	6.7	6.0	5.7	5.7	5.7	4.7
Thermoplastic-White, Alkyd												
72	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.7	9.0	9.3	9.0
Thermoplastic-White, Cold Curing												
78	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.7	9.7	9.3	9.3
Thermoplastic-Yellow, Alkyd												
73	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.7	9.7	9.3	9.7	9.3
Thermoplastic-Yellow, Hydrocarbon												
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.7	9.7	9.7	9.7	9.7

TABLE 39. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6*	69.2	41.4	33.1	33.7	29.0	31.4	24.1	34.5	34.5	23.5	22.3	20.0
	70.8	45.4	37.1	31.1	30.3	29.5	29.4	36.0	41.3	26.5	26.3	25.3
33	78.7	45.8	38.2	37.5	39.3	34.5	38.9	43.0	45.8	29.5	29.3	24.8
	80.5	52.9	45.1	37.2	45.6	41.1	37.9	43.3	38.0	31.3	31.0	26.8
35	78.8	50.5	40.6	31.9	37.8	32.5	32.7	38.5	44.0	26.0	26.5	24.0
	81.9	53.7	43.4	40.4	41.1	41.0	38.6	41.8	44.3	30.0	33.8	28.8
37	78.1	46.4	36.0	37.7	38.4	39.1	32.9	41.5	43.3	30.0	31.3	28.8
	78.9	46.9	41.4	38.1	41.3	39.7	34.9	41.8	45.0	30.5	33.3	29.5
64	70.0	45.2	38.5	35.0	40.3	38.5	30.5	32.5	34.8	27.5	20.3	21.0
	71.6	48.4	40.2	37.2	43.3	35.6	37.1	39.3	42.8	28.8	27.8	25.0
81	70.3	48.2	39.4	35.9	34.8	34.8	28.8	42.0	43.5	30.0	30.3	25.8
	73.6	52.1	43.1	39.6	39.0	38.3	35.5	45.8	44.5	27.0	35.3	27.3
84	73.3	46.8	41.0	38.9	42.2	41.1	32.4	39.8	41.3	41.8	26.5	30.0
	73.5	54.7	42.4	40.4	43.7	39.6	37.6	48.0	41.0	34.0	33.8	31.5
87	68.9	45.3	38.0	34.8	34.6	34.1	32.5	44.3	52.5	36.3	29.0	31.8
	71.7	47.8	39.1	37.6	35.4	38.7	35.4	49.3	51.8	34.8	40.0	34.0
88	66.0	44.1	39.0	36.5	34.6	34.8	35.0	45.8	49.3	36.8	32.0	30.3
	68.4	48.2	41.7	38.0	38.7	38.2	35.8	49.3	50.5	38.5	37.8	30.5
98	71.3	48.6	38.1	36.5	31.8	36.7	28.9	40.5	45.8	25.3	23.3	25.0
	73.1	54.9	40.6	37.8	37.7	37.4	31.8	44.5	47.8	32.3	31.5	29.3
103	77.1	47.6	43.9	43.6	41.7	40.2	35.5	39.0	45.0	26.3	30.3	28.3
	77.6	48.7	39.6	42.8	42.7	43.6	39.0	42.5	47.5	26.3	35.3	28.3
Paint-Solvent, White (120 sec)												
66	53.9	37.1	34.0	31.5	35.6	31.7	26.7	35.3	44.5	27.8	27.5	25.8
	58.2	36.7	34.1	31.7	29.7	35.2	31.7	41.8	41.0	32.3	29.3	28.3
Paint-Solvent, White (3 min or more)												
11	68.5	40.7	34.0	31.2	28.0	32.3	26.7	37.0	36.5	23.8	21.5	21.3
	70.2	46.6	36.4	33.5	31.6	31.0	29.4	39.5	40.5	23.5	27.8	23.5
Paint-Solvent, Yellow (60 sec)												
7	44.0	27.7	21.9	21.0	22.6	18.9	18.1	30.3	26.0	19.0	26.0	17.0
	47.6	32.5	25.7	23.8	24.2	23.7	20.9	32.5	28.3	20.3	24.8	19.8

TABLE 39. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
8	48.8	32.9	25.7	24.1	23.4	21.5	18.6	27.3	29.5	16.8	16.0	17.0
	49.0	34.9	27.9	25.8	26.0	27.2	26.5	29.3	30.5	20.3	22.8	17.0
34	43.8	25.5	22.6	19.5	21.4	19.8	17.7	26.5	28.5	18.0	20.0	17.8
	46.0	28.5	24.3	24.2	23.7	23.8	22.0	28.0	28.3	21.3	23.0	18.8
36	48.3	28.9	25.8	23.5	24.9	22.5	22.8	27.5	29.5	22.0	19.8	19.5
	47.7	31.0	27.9	27.2	25.9	27.6	24.5	29.0	29.0	21.8	24.5	18.8
38	46.5	28.5	25.9	25.2	22.7	20.0	19.8	27.0	32.0	22.3	21.0	19.8
	47.5	30.6	26.9	26.0	26.3	27.2	24.6	29.0	30.5	21.8	24.3	21.3
65	45.7	29.3	24.9	22.6	22.3	23.6	19.0	32.3	30.8	18.8	21.8	16.3
	46.4	30.4	26.2	24.7	26.4	25.4	23.9	34.0	33.3	23.5	26.5	17.5
80	45.1	27.8	23.2	20.8	19.9	19.7	16.8	28.0	29.3	21.3	18.0	18.8
	46.6	30.1	26.2	24.6	22.7	22.5	23.0	27.8	29.8	22.3	22.0	19.3
85	45.3	28.0	27.1	24.8	25.4	24.5	23.1	27.0	27.5	20.3	21.8	18.0
	45.4	31.7	26.4	24.1	22.5	25.4	23.1	29.5	27.5	20.3	24.3	16.8
86	49.9	32.3	29.2	25.3	24.1	21.8	22.7	30.0	32.5	24.0	22.0	21.0
	49.9	34.6	30.8	28.1	27.7	27.1	24.9	32.3	32.5	25.8	25.0	20.3
89	49.6	34.3	30.5	27.7	25.9	24.9	22.9	27.5	29.5	20.5	19.8	19.8
	48.9	35.5	32.8	29.8	28.5	27.3	25.9	29.8	29.5	23.0	23.8	20.3
99	40.3	27.3	22.8	21.0	20.7	18.9	18.6	24.5	28.0	21.3	16.5	18.0
	43.6	29.2	25.1	23.2	23.8	23.7	21.5	27.0	28.3	19.8	21.0	18.3
102	48.3	28.9	25.0	24.5	25.2	23.8	23.4	29.8	34.3	23.5	22.0	21.3
	48.3	28.5	27.2	25.7	27.3	27.4	24.8	31.0	35.0	25.0	25.3	22.5
Paint-Solvent, Yellow (120 sec)												
67	33.0	23.2	19.2	17.6	18.8	21.4	19.2	30.5	29.3	18.3	23.8	16.8
	33.0	21.2	20.4	18.5	18.5	21.0	18.6	33.0	29.3	21.5	28.8	17.0
Paint-Solvent, Yellow (3 min or more)												
12	48.8	29.1	24.7	22.2	26.6	18.2	17.4	23.8	26.8	18.0	23.0	16.3
	49.6	31.5	26.9	24.9	29.1	22.9	21.1	29.5	26.0	18.8	25.5	17.0
Paint-Water, White (60 sec)												
5	78.2	53.1	50.5	46.0	41.6	37.6	40.4	40.3	49.8	37.8	38.5	32.3
	81.1	59.1	56.0	48.3	45.7	47.1	47.1	44.8	50.0	39.3	38.0	38.0
39	73.8	47.0	38.3	39.1	32.6	30.7	28.8	44.3	52.0	33.3	29.5	34.3
	75.6	50.0	34.1	36.5	40.2	41.8	39.2	50.5	51.0	36.0	36.8	38.8

TABLE 39.

Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, White (60 sec)(continued)												
42	77.9	52.6	45.3	45.9	43.8	41.5	31.2	43.3	51.8	38.5	27.8	32.8
	79.3	54.9	49.6	47.5	46.1	46.8	45.2	49.3	52.3	33.5	32.5	35.8
45	73.3	46.4	35.6	39.4	34.2	38.3	32.2	45.0	53.0	31.8	30.0	33.5
	72.8	48.8	37.9	41.6	35.6	46.6	35.0	41.8	48.8	34.8	38.5	36.5
48	68.6	41.6	34.0	33.1	18.3	24.8	25.6	45.5	46.0	33.0	25.5	33.0
	67.6	44.9	27.3	32.4	31.7	35.5	30.4	40.5	39.5	32.0	27.0	30.5
61	77.4	54.1	43.4	35.3	34.8	36.6	33.7	41.8	50.8	38.0	30.0	31.8
	79.0	55.6	44.1	42.0	39.1	44.9	36.3	43.5	48.0	36.0	33.3	37.8
83	72.9	45.0	33.1	33.9	30.0	30.5	25.0	41.5	44.8	28.3	28.3	30.8
	74.3	44.6	36.1	34.3	34.8	34.6	32.4	43.5	43.5	28.8	33.0	32.5
96	75.8	52.5	46.1	40.4	41.8	38.0	30.5	40.0	48.0	32.5	29.3	28.0
	77.1	54.6	49.0	42.3	45.0	42.0	37.7	39.3	46.5	32.3	31.0	32.5
101	72.7	47.6	38.2	31.1	30.1	33.5	27.4	41.8	47.8	34.3	32.3	27.3
	76.1	51.0	42.6	39.3	35.2	37.0	34.3	43.8	46.8	33.0	34.3	32.3
Paint-Water, White (120 sec)												
68	56.7	39.5	32.7	28.4	28.6	25.2	22.3	33.5	42.5	27.0	28.5	25.3
	59.7	42.4	34.6	34.8	26.5	29.4	26.6	38.5	42.8	29.3	33.0	29.3
Paint-Water, Yellow (60 sec)												
9	53.4	38.5	35.7	33.0	31.4	31.5	27.8	34.8	38.3	29.0	29.5	29.0
	53.1	38.2	38.6	34.5	33.6	30.7	32.0	36.5	38.0	31.3	27.8	29.8
10	51.3	37.5	36.3	32.1	28.2	29.0	23.3	33.3	33.8	18.3	26.8	23.0
	52.0	37.4	37.2	30.4	25.4	28.7	22.9	35.3	29.3	24.0	26.3	19.5
40	41.3	27.9	23.4	24.6	24.0	21.8	22.3	31.5	35.5	26.3	22.8	22.8
	42.3	28.1	23.7	23.0	25.5	25.5	21.6	33.8	33.5	24.2	26.7	23.7
41	41.9	31.2	24.1	21.7	25.7	22.2	21.5	30.3	32.5	22.8	22.8	20.5
	42.8	29.5	25.2	24.5	28.3	22.3	23.5	32.8	31.0	24.8	25.3	22.5
43	45.0	32.3	29.0	28.5	26.9	25.7	18.8	30.0	33.0	21.8	21.5	21.3
	45.7	34.7	33.0	31.6	30.2	29.3	26.8	31.5	33.0	25.5	27.3	23.5
44	43.3	29.1	26.4	23.8	23.9	21.4	20.6	27.3	29.8	21.5	21.3	19.5
	44.1	30.6	27.8	27.5	25.7	26.4	23.8	29.3	28.3	23.5	24.3	22.5
46	40.8	27.1	22.1	22.0	22.2	18.9	19.7	28.0	30.5	21.3	20.0	20.8
	38.7	28.1	25.4	23.9	21.5	23.6	22.6	27.8	30.0	24.0	25.3	22.0

TABLE 39. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
47	41.4	29.4	24.8	23.6	21.9	19.9	19.0	29.3	34.8	22.3	23.0	22.3
	42.6	30.3	26.7	24.6	24.1	25.3	24.9	31.8	32.5	24.8	27.5	23.8
57	46.2	36.3	32.2	32.6	31.8	33.7	27.3	35.3	37.3	27.3	25.8	26.5
	46.7	36.5	35.0	33.6	34.7	32.4	34.0	32.0	36.5	27.8	26.0	27.3
60	48.6	26.9	25.4	24.8	29.7	23.6	22.8	33.0	32.0	24.3	23.3	19.5
	47.3	31.3	27.9	30.8	30.1	20.5	26.3	32.8	31.5	26.5	27.0	24.3
63	45.3	31.9	25.4	22.5	23.3	22.2	21.8	32.3	32.0	22.0	22.3	20.5
	45.4	32.2	29.4	25.5	24.0	26.1	25.2	30.3	30.3	21.8	25.5	22.0
82	42.2	34.1	26.0	22.9	22.7	21.5	20.4	27.0	29.8	25.8	20.3	21.8
	42.1	30.1	26.7	25.1	23.9	24.2	22.0	28.8	28.8	23.3	23.8	21.5
97	44.5	33.9	29.7	28.9	29.2	28.8	21.9	31.3	33.3	24.8	21.3	24.0
	44.3	36.1	33.1	31.3	30.9	29.4	27.3	31.5	32.3	26.3	26.0	24.3
100	45.6	34.5	31.8	29.4	28.2	28.1	29.6	31.0	34.3	24.8	23.3	24.5
	46.1	33.7	30.3	29.3	29.7	29.8	31.3	32.0	33.5	26.3	26.8	24.0
Paint-Water, Yellow (120 sec)												
69	38.1	25.4	19.7	18.6	18.6	17.0	14.6	24.8	29.8	20.5	18.3	17.8
	38.5	28.0	22.2	19.9	20.5	20.3	19.0	29.8	28.3	21.0	23.0	18.8
Paint-Polyester, White												
70	58.0	41.1	33.7	29.5	27.5	24.6	23.9	41.8	46.3	32.3	28.3	24.0
	48.6	40.7	34.1	30.6	29.9	29.2	27.4	45.5	43.3	29.0	31.8	27.5
Paint-Polyester, Yellow												
71	29.1	21.4	20.3	18.4	17.9	17.8	15.0	27.5	29.0	22.8	19.5	16.8
	31.9	23.6	22.7	21.0	20.4	21.7	20.5	30.0	28.3	20.5	23.3	18.3
Thermoplastic-White, Alkyd												
72	69.5	55.3	44.1	50.8	51.0	57.2	53.3	65.8	69.3	44.5	49.5	50.8
	69.8	58.9	39.0	38.9	45.1	54.8	49.6	63.3	69.3	47.5	54.8	47.8
Thermoplastic-White, Cold Curing												
78	63.1	36.2	31.9	29.4	30.3	31.1	30.6	48.0	59.5	33.3	31.3	33.5
	61.5	36.9	29.6	28.2	30.3	31.3	37.7	53.3	54.8	35.8	37.0	32.8
Thermoplastic-Yellow, Alkyd												
73	44.3	34.2	29.5	29.5	32.1	34.5	32.3	40.3	43.3	24.5	32.0	26.3
	43.1	35.5	26.7	23.9	30.4	33.9	30.8	38.3	41.3	26.3	33.5	31.3
Thermoplastic-Yellow, Hydrocarbon												
62	40.6	33.8	28.7	28.7	28.2	32.3	32.1	40.3	46.0	30.0	32.3	29.3
	40.2	31.5	27.6	26.2	28.7	31.0	29.8	38.0	42.5	27.3	33.8	31.8

TABLE 39. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, White												
1	72.9	46.7	36.8	31.8	35.6	37.5	39.4	51.8	55.8	44.0	44.3	45.5
	73.0	45.2	36.4	34.1	34.8	33.7	34.6	50.3	58.0	43.8	47.3	41.0
16	89.5	76.9	71.1	73.4	69.6	73.5	71.8	69.3	76.8	65.0	66.0	66.3
	88.9	76.7	70.7	61.6	71.5	72.7	66.3	73.3	75.5	60.8	65.3	60.5
19	86.1	72.7	64.8	63.2	68.1	63.5	65.7	77.3	82.8	66.3	63.8	67.3
	86.4	71.0	63.0	63.0	66.9	64.0	58.9	73.3	77.5	66.0	65.5	66.0
20	85.0	67.8	62.1	62.6	65.9	57.1	61.8	74.0	78.8	63.0	60.3	63.3
	85.4	69.7	63.8	60.9	62.5	59.3	60.2	71.3	74.5	62.0	57.8	60.8
27	74.2	49.1	40.7	35.7	39.3	35.6	37.8	53.5	59.8	42.3	45.5	43.5
	73.0	46.0	37.0	33.1	34.8	35.2	34.2	50.0	51.5	41.0	45.0	34.0
30	61.0	46.7	42.3	45.2	43.0	45.3	42.2	51.3	57.3	42.3	43.8	41.0
	59.6	49.4	42.5	42.7	44.9	46.2	43.8	49.3	53.0	40.3	42.0	38.8
32	74.8	58.7	54.1	54.1	54.7	51.1	51.9	59.0	64.5	51.0	48.5	48.3
	74.8	59.3	54.6	52.7	53.1	53.7	53.1	59.8	59.3	46.3	48.0	46.3
58	85.0	60.0	64.5	57.5	64.4	63.5	63.6	63.5	68.5	51.5	50.8	52.3
	84.0	66.8	63.7	50.5	63.4	59.6	59.2	62.0	67.5	53.0	47.3	52.3
75	78.1	57.9	50.7	43.6	50.0	53.7	48.7	62.8	73.0	57.0	54.5	51.5
	78.6	56.0	48.9	45.0	53.2	56.7	55.2	65.5	69.3	54.3	56.0	54.8
Temporary Tape, White												
14	82.5	50.9	40.6	36.9	41.0	38.7	35.5	58.0	67.0	49.3	44.5	46.8
	81.0	51.5	35.1	38.6	40.7	39.0	39.5	51.0	58.0	45.8	42.8	41.3
Permanent Tape, Yellow												
2	44.1	25.4	24.4	22.2	23.1	22.6	24.2	31.8	38.3	27.0	29.0	26.5
	43.6	26.0	20.1	20.2	19.2	18.9	18.5	30.3	34.3	26.8	28.3	23.5
15	47.6	40.6	40.2	40.7	41.5	41.0	40.2	41.8	43.5	35.8	35.3	38.5
	47.8	38.7	38.8	35.8	39.7	39.3	37.5	40.5	42.3	37.3	38.3	36.5
21	51.5	36.7	34.2	33.7	33.8	33.1	31.5	37.3	44.0	32.3	33.5	34.3
	51.3	37.1	34.5	33.3	34.6	34.3	33.4	39.0	39.5	31.5	34.5	31.5
28	46.5	29.4	24.5	22.4	23.2	22.2	21.2	29.5	36.5	33.3	27.3	26.3
	46.8	29.7	23.2	21.1	21.3	21.1	20.5	28.3	33.5	24.5	23.8	24.8
29	38.5	30.8	28.9	28.7	29.5	29.7	29.2	35.5	40.3	29.0	31.0	29.5
	38.7	30.9	29.1	29.6	30.9	30.7	29.8	35.3	37.5	27.8	29.5	27.3

TABLE 39. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, Yellow(continued)												
31	46.6	37.1	37.7	39.4	35.4	33.6	32.9	39.3	41.5	32.3	33.0	31.3
	46.0	36.7	32.1	38.0	35.0	34.4	31.3	38.0	39.0	32.3	31.5	29.8
59	46.0	37.8	34.1	36.7	33.8	35.4	32.4	36.8	39.8	30.8	30.0	31.0
	46.4	37.9	32.4	30.5	28.6	33.7	30.8	30.0	35.0	30.0	33.0	29.3
74	49.3	36.7	35.8	30.5	36.4	34.4	35.3	37.3	44.5	34.8	34.3	33.3
	47.9	36.2	34.8	34.3	33.4	33.9	34.4	38.5	41.5	33.5	35.0	32.3
Temporary Tape, Yellow												
13	50.2	31.1	25.0	25.7	23.4	23.4	22.5	33.0	37.8	29.0	28.0	27.0
	49.0	30.7	25.6	24.0	23.7	22.8	24.1	27.5	31.8	26.8	28.3	24.8

* Top number is wheel track measurement and bottom number is centerline measurement.

TABLE 40. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6*	75.8	58.5	43.9	38.0	37.4	40.7	35.0	47.0	41.5	36.8	35.3	32.8
	74.9	60.2	49.0	42.0	40.6	36.0	32.1	37.3	42.8	31.5	31.0	34.3
33	73.0	54.5	36.3	29.6	35.6	35.8	29.9	39.5	40.0	33.3	30.3	32.3
	71.8	54.3	40.4	36.6	36.9	38.3	27.1	36.8	40.8	31.5	29.3	30.8
35	77.1	54.8	39.8	31.7	35.7	40.5	33.2	51.0	43.5	40.5	34.0	35.8
	76.6	51.7	43.6	37.2	34.8	40.2	27.8	38.5	39.5	33.0	32.0	32.3
37	76.3	54.8	46.1	40.3	42.3	48.0	40.6	52.8	47.8	40.8	38.3	37.0
	77.9	56.5	47.8	44.7	44.2	47.2	39.8	46.0	46.5	38.5	40.0	39.3
64	83.8	55.5	51.2	44.6	45.9	46.3	41.6	50.5	49.3	43.8	35.0	36.3
	80.7	57.6	52.9	43.2	47.4	47.1	35.6	44.5	47.0	38.5	32.3	32.5
81	71.1	55.7	47.4	37.0	38.9	41.9	35.4	46.8	42.3	36.8	33.0	32.5
	69.1	52.6	47.3	41.5	40.9	40.0	35.7	44.8	46.8	40.8	32.0	34.0
84	81.3	58.6	52.4	45.3	42.1	40.7	38.1	46.3	50.8	45.3	35.8	34.5
	80.3	57.8	49.8	45.6	41.5	43.0	27.6	45.3	48.8	44.0	33.5	32.5
87	73.3	55.7	50.1	44.3	45.6	41.5	44.4	57.3	57.0	50.3	39.3	41.8
	75.1	57.2	50.0	43.7	43.3	44.4	38.6	51.0	54.0	45.0	37.5	36.5
88	71.6	56.2	48.5	39.6	40.8	44.0	42.7	51.5	54.3	45.0	40.3	36.3
	73.3	56.7	44.6	41.8	41.7	33.1	41.5	50.8	55.0	43.3	35.3	33.5
91	85.1	65.2	60.8	49.7	52.9	53.1	46.7	53.0	51.0	43.3	36.5	36.0
	84.3	67.3	57.6	51.3	52.3	50.8	38.1	49.5	52.5	47.5	37.3	35.0
92	78.5	51.7	48.1	38.9	39.2	35.8	36.5	47.8	50.3	38.5	34.5	31.5
	73.9	57.2	44.0	38.2	40.5	43.0	38.6	44.5	46.5	39.8	34.8	32.3
93	68.9	51.0	42.8	35.6	36.4	41.7	38.6	51.5	55.3	43.5	33.3	38.0
	69.0	53.4	42.7	37.2	40.0	43.5	41.4	46.5	50.0	42.8	37.8	33.5
98	70.1	54.2	47.3	37.9	37.8	41.8	37.0	46.5	45.0	39.5	36.0	32.3
	69.8	55.3	44.0	40.5	42.0	39.7	34.1	44.5	47.0	40.8	34.8	32.0
103	73.9	59.7	57.9	48.5	46.7	51.3	40.8	48.3	52.3	44.5	33.3	39.0
	75.6	61.1	52.6	47.7	50.5	46.5	36.7	45.3	52.5	44.8	41.5	39.0
Paint-Solvent, White (120 sec)												
66	67.3	48.1	47.8	35.9	33.5	46.1	39.6	51.8	57.3	45.3	36.8	37.0
	68.5	51.6	44.8	37.6	37.7	39.6	41.4	48.3	52.0	42.5	37.3	33.5

TABLE 40.

Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (3 min or more)												
11	70.5	56.1	42.0	33.9	33.8	37.9	32.5	41.5	44.8	38.0	32.3	31.5
	69.9	55.9	48.1	38.4	39.6	38.8	36.8	42.5	39.5	31.3	34.3	30.0
94	86.6	67.9	63.5	55.9	50.0	56.8	50.2	58.0	54.8	49.3	39.8	45.5
	80.5	68.8	63.6	55.6	55.4	57.1	49.8	53.3	53.8	48.5	44.0	40.5
95	83.4	60.1	53.9	40.8	45.9	45.5	43.4	52.5	50.8	42.5	33.8	35.5
	83.3	64.0	54.5	47.8	49.7	48.4	44.6	49.3	49.0	43.8	39.5	37.3
Paint-Solvent, Yellow (60 sec)												
7	48.1	34.4	29.5	24.2	25.3	26.2	23.5	29.3	29.5	24.5	28.0	22.5
	46.3	34.4	28.2	26.6	26.8	25.8	24.6	26.3	29.3	26.8	20.8	22.0
8	50.9	38.9	33.7	26.6	29.3	30.6	26.1	33.3	35.0	29.8	21.5	27.3
	50.2	39.6	34.8	30.6	32.0	30.3	26.0	29.0	32.8	27.5	24.5	26.5
34	50.0	34.2	30.4	27.1	26.8	28.9	25.5	26.0	33.0	25.0	23.5	23.3
	49.5	34.2	29.8	29.1	29.8	30.6	22.7	29.0	30.0	26.3	27.8	23.5
36	51.6	37.1	36.3	32.8	34.1	34.9	30.4	35.3	34.0	31.0	23.8	26.0
	53.7	37.3	35.5	32.7	34.5	33.1	28.3	34.3	34.8	29.3	28.3	25.3
38	41.1	31.1	28.7	25.4	26.4	27.0	24.6	32.0	33.5	29.3	23.3	23.8
	41.0	31.8	28.5	26.2	27.7	27.9	23.2	29.8	30.3	27.0	22.8	23.5
65	49.9	35.2	31.6	27.5	27.8	32.0	28.0	32.5	34.8	32.8	22.5	26.5
	51.5	35.0	31.7	27.7	29.0	30.2	27.4	31.5	34.0	32.5	26.5	23.8
80	50.7	37.6	35.3	30.4	30.2	32.0	30.9	33.0	31.8	30.8	20.8	24.3
	51.1	38.1	34.2	32.7	33.8	33.9	29.1	32.3	32.8	29.0	27.0	24.3
85	47.2	31.0	30.5	25.6	27.3	29.1	27.8	33.0	31.3	28.8	24.8	24.5
	47.0	33.9	29.8	27.4	28.1	27.5	24.5	29.8	31.0	26.8	24.8	22.8
86	49.5	35.2	30.7	25.6	27.4	29.5	26.7	32.8	35.8	26.5	22.3	26.0
	50.8	38.8	32.8	28.4	29.4	30.8	26.1	32.3	34.8	27.8	25.5	23.8
89	50.6	36.9	33.5	28.3	29.6	31.6	28.7	29.8	31.8	26.0	28.3	23.8
	49.0	39.7	34.1	30.4	31.4	32.6	26.4	31.8	34.3	25.8	27.5	23.3
99	51.0	37.5	33.8	32.6	33.3	30.8	31.4	34.3	34.0	30.0	26.3	25.8
	51.3	39.2	35.3	33.8	33.4	34.5	25.4	34.3	34.8	31.5	28.8	24.3
102	57.4	37.8	36.0	32.8	34.9	36.1	31.8	36.5	39.8	32.8	27.8	28.5
	57.1	38.8	36.8	33.2	35.7	34.0	27.5	37.0	37.8	33.3	30.0	26.0

TABLE 40. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (120 sec)												
67	40.6	29.4	28.7	21.1	23.6	26.4	25.5	36.0	39.5	31.5	26.0	25.0
	41.3	32.3	29.2	25.7	26.2	28.4	23.7	34.3	33.0	31.0	24.8	22.3
Paint-Solvent, Yellow (3 min or more)												
12	49.5	33.9	36.0	22.5	24.5	27.3	22.0	29.0	29.3	24.0	21.8	21.8
	48.9	35.6	36.2	25.9	25.5	26.5	22.6	27.0	26.5	21.5	21.3	20.5
Paint-Water, White (60 sec)												
5	77.4	39.5	41.6	44.2	33.1	29.2	37.9	46.8	49.0	41.5	33.0	33.0
	77.4	51.7	47.3	46.2	42.4	45.6	36.4	44.3	44.5	40.3	32.3	30.8
39	72.8	58.0	53.6	44.7	44.3	46.4	48.0	51.0	56.0	50.8	38.3	43.3
	74.2	58.1	48.8	45.7	44.1	46.9	40.5	45.5	48.3	41.8	39.5	39.5
42	80.7	62.4	57.6	52.9	53.6	50.3	59.1	56.3	54.3	47.3	42.0	41.3
	81.6	62.5	55.6	51.5	52.4	54.8	47.3	53.3	51.8	44.8	41.5	40.0
45	75.3	57.8	53.4	45.6	47.1	47.8	49.2	57.5	58.8	49.0	47.3	47.0
	75.8	56.2	51.0	44.4	42.4	47.7	41.0	47.5	48.0	41.0	38.0	39.0
48	69.4	53.2	41.1	33.1	39.3	41.0	36.6	48.5	45.3	42.0	39.5	35.8
	69.5	52.4	45.2	40.2	37.6	40.9	36.0	45.8	48.5	36.3	34.8	32.8
61	85.6	59.7	42.8	41.8	39.0	42.7	39.7	53.8	56.5	51.0	41.8	40.0
	86.5	61.0	52.6	45.1	44.4	46.6	39.2	49.3	52.0	46.0	39.3	39.8
83	74.8	52.2	46.4	36.7	38.3	38.4	32.9	45.0	51.8	45.5	34.3	36.0
	75.6	54.9	47.4	38.8	38.4	41.6	41.1	43.3	47.0	39.0	32.3	34.0
96	73.9	58.6	48.1	38.7	42.6	41.8	38.3	48.8	47.8	40.8	34.5	34.5
	73.9	58.0	50.5	41.5	42.3	44.9	39.4	37.5	42.3	34.5	32.8	34.3
101	80.2	54.9	52.6	48.3	47.5	52.6	51.8	58.3	56.5	46.8	46.8	43.0
	77.8	61.5	49.8	47.7	47.0	49.1	45.0	50.3	50.5	45.3	41.3	40.0
Paint-Water, White (120 sec)												
68	71.0	57.1	49.7	41.5	42.2	48.6	43.6	46.8	52.5	40.0	38.0	33.0
	71.8	55.3	50.4	45.7	42.0	43.2	43.0	49.8	43.5	36.0	36.8	36.5
Paint-Water, Yellow (60 sec)												
9	48.3	35.1	34.3	31.2	32.3	28.3	29.2	30.0	34.5	27.5	21.8	22.5
	48.5	37.1	32.1	32.5	32.2	33.1	29.2	30.8	30.8	27.5	25.5	24.0
10	45.0	37.3	34.2	30.8	33.4	28.0	27.5	31.3	32.0	29.8	22.5	23.8
	47.4	38.3	34.6	34.5	32.9	33.9	25.5	32.0	32.3	28.5	23.5	24.5

TABLE 40.

Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
40	48.2	35.4	33.2	28.2	27.9	30.2	26.6	33.8	37.5	30.3	30.5	26.3
	47.3	35.8	31.7	28.9	29.9	28.3	30.2	29.8	36.5	28.5	26.0	30.0
41	50.4	38.3	36.6	32.7	33.2	37.0	32.9	31.8	37.5	32.5	25.0	32.0
	48.3	38.0	34.8	30.2	35.2	33.8	31.3	34.8	37.5	32.5	27.0	29.5
43	50.2	37.7	35.3	29.1	30.3	28.2	26.4	34.5	31.3	31.3	23.3	25.8
	49.8	37.8	34.9	31.6	32.6	32.8	28.3	33.8	31.5	30.8	27.3	25.5
44	49.5	36.5	29.1	28.8	28.2	29.6	27.9	33.8	35.5	33.3	25.8	27.5
	48.6	35.9	33.6	31.5	31.3	32.7	29.7	34.3	34.3	32.0	28.0	26.5
46	44.1	28.8	28.8	26.3	27.4	27.9	28.4	36.5	38.0	33.0	28.0	28.8
	44.6	34.7	30.1	27.1	27.8	28.1	26.5	34.8	35.0	31.5	27.3	26.0
47	46.5	29.7	29.9	30.3	26.9	32.4	30.3	32.5	38.5	34.0	27.3	30.5
	46.8	36.6	31.1	29.2	31.0	32.3	29.5	36.0	36.3	31.3	26.8	27.8
57	48.7	33.4	35.5	32.9	33.5	35.3	31.7	38.5	36.3	32.5	24.0	30.3
	48.7	37.6	36.0	33.9	36.1	36.9	31.6	36.8	37.5	32.8	25.3	29.8
60	53.0	36.2	32.9	29.1	30.4	29.4	24.7	29.0	35.0	31.0	25.8	28.3
	51.1	34.4	32.0	27.4	29.5	28.3	27.0	31.8	32.0	27.8	24.3	23.8
63	48.4	35.5	35.7	29.0	28.9	29.5	28.5	31.0	35.0	28.0	19.3	26.5
	48.3	36.2	35.4	97.8	30.8	31.7	23.6	32.8	30.5	27.0	23.3	23.0
82	50.1	34.2	30.5	26.7	28.3	29.1	25.3	30.5	34.0	28.0	24.5	26.3
	47.6	35.1	29.6	25.3	25.6	27.2	24.3	27.5	29.8	26.3	23.5	23.8
97	45.9	37.2	35.4	32.5	33.8	33.5	33.7	31.5	33.8	27.5	25.5	28.3
	45.0	39.8	34.6	34.6	32.8	34.7	31.0	35.0	31.3	29.8	27.8	26.3
100	53.3	40.8	36.6	34.3	34.2	34.0	34.9	38.3	36.5	29.5	28.3	32.3
	52.5	40.8	37.1	34.2	33.3	35.6	33.0	35.8	36.0	34.0	28.5	28.8
Paint-Water, Yellow (120 sec)												
69	46.0	34.6	29.6	21.8	24.8	26.5	26.0	34.8	30.8	29.3	24.0	24.8
	45.3	33.1	27.7	23.9	26.8	25.7	23.8	27.3	29.0	22.3	22.3	21.5
Paint-Polyester, White												
70	61.4	47.6	34.4	29.7	33.6	34.9	32.2	44.5	43.8	38.0	29.0	31.3
	61.2	50.8	38.5	33.9	34.4	38.3	31.9	33.5	36.8	29.5	30.3	30.5
Paint-Polyester, Yellow												
71	36.8	26.4	24.6	18.6	21.6	20.9	19.1	27.8	24.5	23.5	19.3	19.8
	35.6	27.3	23.0	20.7	22.3	23.0	20.3	24.8	23.8	22.3	21.0	18.5

TABLE 40. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Thermoplastic-White, Alkyd												
72	78.8	67.8	68.8	57.6	65.1	68.5	65.5	71.0	69.3	63.3	55.5	57.3
	73.8	66.4	64.3	59.3	62.1	61.1	53.5	67.3	68.5	58.8	57.0	55.8
Thermoplastic-White, Cold Curing												
78	62.6	39.4	35.7	29.8	30.9	37.0	35.7	54.5	62.0	47.0	42.0	36.8
	60.8	42.5	37.1	33.2	34.8	34.6	30.6	47.8	54.0	42.5	35.8	33.8
Thermoplastic-Yellow, Alkyd												
73	45.9	40.1	35.4	31.6	33.0	37.6	34.6	44.5	46.5	37.3	34.0	35.3
	44.8	40.9	36.7	33.0	33.4	35.9	30.4	39.8	41.0	32.8	33.8	31.5
Thermoplastic-Yellow, Hydrocarbon												
62	38.1	33.8	34.6	28.8	31.4	39.1	40.5	45.0	44.8	38.3	33.8	35.5
	39.9	33.1	29.9	26.6	29.3	31.6	25.8	36.3	38.3	34.0	34.8	30.0
Permanent Tape, White												
1	72.2	49.2	45.3	38.6	41.1	42.9	42.5	56.8	59.0	51.3	50.5	39.0
	71.7	48.8	38.2	33.4	39.6	34.1	32.8	44.5	50.8	45.5	47.0	35.3
16	85.1	80.4	80.7	72.0	74.9	76.2	72.4	73.0	73.5	69.8	68.0	63.8
	85.2	81.0	77.8	73.8	73.6	73.5	72.5	73.3	74.3	65.5	66.5	59.8
19	84.6	73.5	74.7	65.3	66.5	66.3	66.7	74.5	78.8	74.0	68.5	59.8
	84.0	72.8	69.3	66.0	64.9	71.8	67.1	72.0	71.0	67.3	69.0	59.8
20	84.3	70.3	68.7	61.0	60.0	61.4	59.8	68.0	75.8	66.5	66.3	52.3
	85.2	70.8	70.3	65.1	63.4	64.4	59.7	70.3	72.5	62.8	64.0	52.8
27	72.9	49.1	43.3	39.9	44.2	46.5	41.4	55.5	59.0	51.8	46.5	38.3
	72.4	48.1	42.6	36.6	38.2	37.9	37.0	49.3	48.0	41.5	37.8	32.8
30	57.1	52.9	52.1	44.8	46.7	47.1	43.9	51.3	57.0	48.0	45.8	36.0
	57.8	49.9	46.8	42.5	39.5	47.1	42.6	50.8	49.8	43.3	44.0	35.3
32	73.1	63.1	60.9	52.2	54.5	51.7	45.0	61.8	63.3	55.5	49.0	40.3
	73.7	60.9	58.0	47.3	51.9	52.3	46.4	56.0	55.0	47.8	46.8	38.5
58	79.8	65.1	62.8	58.0	58.2	62.4	52.2	65.5	71.5	63.0	55.0	37.3
	78.0	72.5	69.7	61.0	66.4	69.3	57.5	67.5	69.8	61.0	59.8	37.8
75	80.1	54.5	52.4	51.2	51.6	54.4	48.7	59.8	62.5	61.8	53.3	37.0
	79.1	57.4	56.7	53.4	50.6	48.5	47.8	60.3	62.0	52.8	52.5	35.5
Temporary Tape, White												
14	80.7	53.1	48.7	41.2	41.0	35.6	36.9	60.5	65.5	57.3	55.0	39.0
	80.5	53.2	44.6	38.1	39.3	41.6	37.7	51.3	56.5	49.3	45.0	35.8

TABLE 40. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Permanent Tape, Yellow												
2	43.6	25.8	23.9	20.8	21.8	21.7	20.1	33.5	35.8	31.0	29.5	21.3
	44.0	26.4	23.0	17.9	18.7	18.6	18.4	25.0	25.3	22.8	23.8	13.8
15	47.3	43.8	43.0	39.5	40.1	41.9	39.3	40.8	41.5	36.0	37.8	33.5
	48.2	42.1	41.5	39.3	39.5	41.9	39.1	41.8	41.5	37.5	36.3	33.8
21	52.8	36.6	37.4	33.4	32.7	37.8	32.2	39.8	42.5	37.8	37.8	30.8
	52.9	39.9	37.0	35.2	34.5	35.6	32.2	39.0	39.0	35.5	35.5	29.3
28	45.5	29.3	25.6	21.0	22.7	23.0	22.6	34.8	35.5	32.3	28.8	23.8
	45.8	29.7	23.5	21.4	23.8	23.8	21.6	29.8	29.0	27.5	23.5	20.3
29	39.8	33.8	34.7	31.2	31.7	32.7	30.4	38.5	36.8	37.8	30.0	26.8
	38.8	33.5	32.4	29.4	30.9	33.3	29.4	35.3	35.3	30.3	30.0	24.8
31	45.8	37.9	35.8	34.1	34.5	33.2	31.5	38.0	39.3	34.3	37.0	27.3
	46.0	37.4	35.3	31.7	33.0	31.1	30.6	35.8	36.3	31.8	30.3	23.3
59	44.9	36.7	37.0	30.8	33.0	34.4	30.6	34.0	34.0	31.0	29.8	18.3
	44.6	39.4	36.8	33.2	33.7	34.6	31.1	34.8	34.8	30.8	29.0	18.5
74	48.2	36.5	37.0	34.9	34.7	31.2	26.9	38.0	40.0	35.8	33.0	23.8
	48.3	37.4	35.5	35.6	34.8	36.8	31.4	38.5	39.8	34.8	32.0	22.5
Temporary Tape, Yellow												
13	50.1	31.3	26.6	22.9	25.1	24.2	22.7	35.5	37.5	33.8	29.8	23.3
	49.1	32.1	26.1	21.9	23.6	24.7	18.7	29.3	31.0	26.0	25.8	19.0

* Top number is wheel track measurement and bottom number is centerline measurement.

TABLE 41. Colormeter Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6*	83.0	64.9	58.2	57.2	54.8	56.9	44.4	57.0	59.0	48.0	46.0	42.0
	82.6	64.5	66.5	51.9	59.2	55.6	53.5	60.0	60.0	47.0	49.0	46.0
33	83.4	60.4	50.3	42.2	44.8	41.8	36.2	48.0	54.0	41.0	43.0	31.0
	83.6	58.7	52.8	48.0	47.7	48.2	43.2	48.0	52.0	38.0	45.0	35.0
35	81.6	50.1	50.6	38.6	43.3	38.0	38.8	47.0	50.0	37.0	44.0	37.0
	83.7	59.9	52.4	49.1	40.3	46.4	43.0	41.0	48.0	32.0	39.0	35.0
37	80.6	46.0	39.7	42.3	42.2	41.7	34.7	50.0	31.0	30.0	25.0	21.0
	75.5	46.0	36.8	34.8	36.3	34.9	35.0	41.0	38.0	28.0	31.0	24.0
64	83.3	61.4	57.9	50.7	49.6	53.8	43.1	55.0	55.0	52.0	43.0	32.0
	82.8	63.5	55.6	51.2	51.2	53.8	43.0	55.0	55.0	51.0	51.0	44.0
81	78.3	59.6	51.1	48.8	42.1	54.2	42.4	53.0	52.0	36.0	37.0	36.0
	78.6	59.8	58.1	52.7	50.3	51.2	52.0	58.0	59.0	44.0	51.0	34.0
84	82.0	61.0	55.0	47.7	51.1	52.6	54.4	51.0	58.0	39.0	48.0	35.0
	84.4	62.4	53.8	51.7	55.3	55.8	51.3	59.0	59.0	48.0	51.0	46.0
87	87.2	67.4	66.2	60.9	24.1	45.8	35.3	63.0	63.0	56.0	54.0	52.0
	86.1	65.4	64.6	59.3	60.6	58.3	53.4	62.0	68.0	53.0	55.0	56.0
88	89.1	66.0	58.7	53.4	38.5	40.4	46.2	54.0	56.0	45.0	50.0	39.0
	86.2	64.7	61.5	49.1	56.1	52.9	49.8	57.0	60.0	47.0	46.0	47.0
98	79.6	60.9	53.9	52.0	41.8	48.0	32.9	52.0	57.0	40.0	42.0	35.0
	79.8	62.0	54.9	52.8	51.6	51.4	46.0	54.0	55.0	41.0	45.0	38.0
103	82.0	56.5	47.3	43.9	40.2	39.0	40.2	45.0	51.0	40.0	38.0	36.0
	79.9	54.8	52.3	49.5	51.3	44.7	39.3	47.0	56.0	40.0	43.0	37.0
Paint-Solvent, White (120 sec)												
66	76.8	63.2	58.1	53.8	48.2	53.8	38.5	53.0	52.0	45.0	37.0	39.0
	80.5	62.3	58.1	51.9	54.2	55.0	47.4	62.0	59.0	47.0	53.0	47.0
Paint-Solvent, White (3 min or more)												
11	83.4	59.9	55.0	48.7	44.5	49.0	40.8	54.0	53.0	40.0	42.0	37.0
	83.8	62.9	57.7	52.5	51.5	50.6	47.0	54.0	54.0	44.0	46.0	43.0
Paint-Solvent, Yellow (60 sec)												
7	55.0	43.0	31.5	36.2	35.3	33.8	32.9	35.0	38.0	32.0	30.0	26.0
	54.3	39.9	38.3	35.9	37.1	35.7	35.8	38.0	39.0	33.0	44.0	31.0

TABLE 41. Colormeter Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (60 sec)(continued)												
8	56.4	45.5	36.2	38.9	34.9	36.6	33.4	37.0	41.0	30.0	31.0	28.0
	57.7	46.3	44.3	40.4	38.4	39.0	37.1	40.0	42.0	30.0	35.0	32.0
34	50.3	36.4	30.2	27.5	36.5	27.1	28.9	35.0	34.0	27.0	27.0	25.0
	49.6	32.4	30.7	28.3	30.6	29.6	26.8	33.0	33.0	26.0	28.0	27.0
36	51.8	34.6	31.1	28.6	29.1	28.9	25.1	32.0	37.0	28.0	24.0	24.0
	51.6	33.1	30.4	30.4	31.0	31.4	29.2	31.0	33.0	28.0	25.0	26.0
38	50.1	31.0	29.0	27.0	22.3	23.1	27.3	32.0	37.0	28.0	28.0	26.0
	48.4	33.6	30.3	28.8	28.4	27.8	28.2	35.0	34.0	28.0	29.0	28.0
65	53.4	37.0	37.4	32.6	30.9	35.8	31.8	35.0	38.0	32.0	29.0	27.0
	53.1	39.4	36.3	34.1	34.9	35.7	33.7	37.0	39.0	31.0	31.0	29.0
80	51.9	35.7	32.2	29.0	30.9	26.9	29.2	33.0	36.0	28.0	24.0	22.0
	51.4	35.6	33.7	33.2	32.4	31.3	28.3	31.0	34.0	24.0	24.0	24.0
85	51.3	37.4	36.0	32.4	33.5	34.6	31.6	34.0	37.0	30.0	31.0	28.0
	51.9	38.1	35.9	28.9	33.2	22.5	33.0	35.0	37.0	29.0	31.0	26.0
86	57.3	41.5	40.5	37.6	32.4	35.5	31.2	41.0	45.0	40.0	39.0	33.0
	55.2	38.6	40.9	36.9	38.7	37.4	33.9	40.0	42.0	39.0	36.0	31.0
89	54.2	39.9	39.0	34.0	22.1	24.2	25.0	31.0	37.0	29.0	31.0	27.0
	53.2	39.6	38.7	35.6	35.3	34.4	32.5	37.0	38.0	33.0	30.0	26.0
99	52.1	36.2	31.5	30.9	32.2	30.7	30.9	35.0	33.0	27.0	25.0	27.0
	50.1	36.2	34.2	31.2	32.7	32.7	29.3	31.0	34.0	27.0	23.0	24.0
102	55.4	32.8	29.1	26.3	31.3	22.6	24.5	30.0	38.0	29.0	28.0	20.0
	55.3	33.6	31.3	28.7	29.1	29.7	28.6	32.0	36.0	38.0	30.0	28.0
Paint-Solvent, Yellow (120 sec)												
67	52.2	38.5	37.7	35.2	35.4	38.3	34.0	43.0	42.0	36.0	25.0	29.0
	53.4	38.6	38.0	34.5	35.7	34.5	36.8	43.0	42.0	38.0	54.0	33.0
Paint-Solvent, Yellow (3 min or more)												
12	55.0	36.6	33.2	28.9	21.2	16.2	22.7	29.0	28.0	25.0	23.0	22.0
	55.4	36.8	33.5	30.9	30.1	28.9	26.4	29.0	29.0	24.0	22.0	21.0
Paint-Water, White (60 sec)												
5	82.7	64.0	64.8	54.8	63.1	40.7	59.9	65.0	66.0	37.0	53.0	50.0
	84.9	65.3	66.6	58.9	48.6	58.4	52.7	31.0	52.0	40.0	29.0	21.0
39	79.4	61.9	58.4	57.1	61.3	66.9	45.1	60.0	65.0	59.0	52.0	47.0
	80.9	61.0	62.6	57.8	61.4	59.2	60.5	59.0	66.0	53.0	52.0	54.0

TABLE 41. Colormeter Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, White (60 sec)(continued)												
42	83.6	61.1	64.8	62.0	57.5	64.3	59.9	55.0	57.0	48.0	53.0	50.0
	85.1	63.0	64.4	59.9	64.4	63.7	58.0	63.0	60.0	46.0	55.0	53.0
45	79.8	59.3	60.0	61.7	56.9	64.9	42.5	68.0	62.0	53.0	45.0	47.0
	79.7	59.2	62.6	60.4	65.0	64.9	59.2	65.0	63.0	57.0	56.0	56.0
48	78.0	61.3	63.7	55.8	59.0	60.6	53.1	65.0	41.0	38.0	42.0	48.0
	77.9	57.5	59.0	56.1	54.8	59.0	54.6	60.0	55.0	61.0	56.0	34.0
61	85.3	65.0	70.6	59.1	64.7	54.1	50.7	72.0	65.0	60.0	58.0	63.0
	84.8	64.1	66.2	55.9	59.4	58.4	61.2	64.0	63.0	53.0	56.0	55.0
83	82.7	62.3	33.9	58.0	49.4	62.8	55.8	33.0	56.0	44.0	45.0	45.0
	81.6	56.8	60.7	55.6	60.8	59.3	57.8	62.0	59.0	50.0	51.0	48.0
96	84.4	66.6	59.1	60.0	63.7	63.9	54.2	58.0	52.0	48.0	48.0	36.0
	84.1	62.4	62.4	56.5	59.2	57.1	58.2	60.0	54.0	49.0	49.0	49.0
101	82.9	63.6	60.4	52.4	53.6	33.7	54.0	60.0	63.0	47.0	55.0	50.0
	81.7	56.5	61.9	51.5	52.6	57.0	47.4	58.0	61.0	49.0	48.0	48.0
Paint-Water, White (120 sec)												
68	80.8	65.4	67.6	68.0	72.8	51.8	69.4	62.0	35.0	47.0	52.0	56.0
	83.3	63.4	73.4	62.7	54.5	42.8	55.2	60.0	56.0	50.0	28.0	51.0
Paint-Water, Yellow (60 sec)												
9	52.9	37.6	39.6	37.4	39.2	31.3	41.7	40.0	40.0	30.0	30.0	34.0
	54.1	38.2	41.6	39.5	39.2	39.0	40.1	42.0	41.0	35.0	35.0	30.0
10	53.2	42.8	42.8	36.5	41.7	19.0	31.8	42.0	41.0	32.0	25.0	31.0
	54.1	42.3	42.4	39.2	40.6	40.8	39.8	30.0	36.0	30.0	26.0	29.0
40	51.2	37.9	40.0	37.9	37.3	26.8	39.2	40.0	42.0	38.0	30.0	35.0
	45.5	38.9	40.2	36.6	39.4	38.9	39.6	40.0	41.0	35.0	37.0	36.0
41	50.5	40.9	40.3	40.8	36.4	24.5	23.4	28.0	44.0	35.0	38.0	30.0
	47.7	40.1	42.1	39.1	40.3	39.8	40.3	44.0	43.0	38.0	39.0	35.0
43	57.8	42.4	41.3	40.0	40.3	24.4	43.4	39.0	43.0	34.0	31.0	33.0
	55.6	39.7	44.0	40.9	42.3	43.8	42.1	43.0	42.0	37.0	33.0	36.0
44	54.7	38.9	39.7	37.7	31.7	25.9	19.5	39.0	38.0	34.0	35.0	32.0
	56.1	39.5	40.2	35.9	39.3	39.6	37.8	40.0	39.0	35.0	34.0	33.0
46	51.4	46.0	38.9	38.2	41.1	28.3	35.8	38.0	38.0	34.0	33.0	36.0
	49.7	38.2	39.2	36.0	37.8	38.8	37.6	40.0	41.0	35.0	37.0	35.0

TABLE 41. Colormeter Data for Unbeaded Paint and Thermoplastic Transverse Lines on Asphalt Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
47	53.5	41.6	43.3	42.3	40.9	42.4	37.8	35.0	36.0	35.0	28.0	32.0
	52.2	40.4	44.0	35.6	41.7	40.1	39.0	36.0	44.0	37.0	39.0	36.0
57	57.1	41.6	32.3	41.9	45.0	34.7	43.5	47.0	40.0	42.0	20.0	34.0
	54.4	42.7	45.1	40.5	43.7	43.6	43.2	45.0	28.0	36.0	37.0	36.0
60	53.9	24.2	32.0	36.9	40.7	16.8	32.3	30.0	36.0	22.0	26.0	31.0
	55.9	38.2	31.9	37.4	37.6	39.7	36.7	39.0	43.0	39.0	39.0	37.0
63	52.1	39.6	40.4	38.0	31.6	29.0	30.1	42.0	41.0	39.0	36.0	36.0
	52.5	35.4	38.6	34.0	35.6	32.6	34.8	39.0	31.0	34.0	32.0	34.0
82	60.3	39.0	44.4	39.2	39.9	16.3	29.7	21.0	37.0	29.0	21.0	28.0
	55.5	39.6	38.3	36.6	36.5	38.2	38.8	36.0	36.0	21.0	31.0	20.0
97	54.4	42.4	31.9	39.2	41.1	28.4	40.7	43.0	43.0	38.0	34.0	35.0
	52.6	39.9	41.7	37.2	38.6	39.5	38.5	40.0	31.0	35.0	28.0	33.0
100	56.5	44.4	45.4	42.0	42.6	45.3	43.4	48.0	51.0	48.0	34.0	40.0
	57.0	42.5	44.5	41.2	42.5	43.0	42.6	44.0	45.0	41.0	41.0	39.0
Paint-Water, Yellow (120 sec)												
69	54.6	45.5	39.8	41.9	42.8	22.0	43.6	41.0	28.0	23.0	18.0	26.0
	56.1	40.7	41.1	39.5	44.4	42.1	43.1	39.0	42.0	34.0	15.0	11.0
Paint-Polyester, White												
70	80.3	64.2	63.8	62.2	58.6	65.1	53.9	61.0	58.0	23.0	63.0	64.0
	79.7	63.1	65.7	62.8	64.6	51.6	64.6	67.0	72.0	66.0	65.0	64.0
Paint-Polyester, Yellow												
71	47.3	39.6	39.2	34.6	37.9	34.4	37.7	38.0	45.0	43.0	37.0	38.0
	46.8	38.2	39.6	34.8	37.1	36.7	36.3	42.0	44.0	39.0	37.0	36.0
Thermoplastic-White, Alkyd												
72	83.7	67.6	62.2	63.3	64.0	62.7	60.4	69.0	72.0	49.0	55.0	47.0
	83.5	69.8	64.8	63.0	68.0	67.8	62.3	69.0	71.0	53.0	61.0	54.0
Thermoplastic-White, Cold Curing												
78	88.8	58.0	76.7	67.0	77.5	72.6	47.6	65.0	71.0	60.0	50.0	56.0
	88.3	56.1	74.9	69.9	78.3	75.0	77.4	75.0	73.0	66.0	62.0	65.0
Thermoplastic-Yellow, Alkyd												
73	49.8	42.1	39.8	38.5	31.7	43.0	40.4	43.0	42.0	33.0	31.0	31.0
	48.6	43.4	39.5	41.1	42.8	42.5	41.7	44.0	45.0	37.0	41.0	35.0
Thermoplastic-Yellow, Hydrocarbon												
62	48.4	42.3	41.3	40.5	42.5	41.7	37.3	43.0	43.0	36.0	34.0	31.0
	47.4	42.1	43.0	41.6	43.1	44.4	40.9	44.0	45.0	37.0	38.0	34.0

* Top number is wheel track measurement and bottom number is centerline measurement.

TABLE 42

Colormeter Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland
Cement Concrete Pavement(Kentucky)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (60 sec)												
6*	87.8	70.7	65.9	62.7	65.8	66.3	65.3	62.0	67.0	59.0	55.0	55.0
	86.3	71.8	70.6	65.8	66.7	67.4	62.1	64.0	66.0	61.0	56.0	55.0
33	82.7	54.7	47.3	41.9	40.8	44.7	41.5	57.0	56.0	47.0	44.0	38.0
	82.7	63.0	47.0	44.5	41.8	41.8	35.9	44.0	49.0	42.0	45.0	40.0
35	85.4	57.5	45.6	43.5	46.7	47.3	43.4	65.0	53.0	48.0	47.0	44.0
	85.5	62.2	49.1	48.3	44.7	47.2	34.7	45.0	57.0	49.0	45.0	45.0
37	86.1	59.2	54.2	51.2	43.8	62.1	46.5	63.0	67.0	57.0	52.0	45.0
	83.3	63.7	53.2	50.1	53.3	51.4	41.7	52.0	62.0	58.0	52.0	52.0
64	79.4	69.2	72.2	63.0	61.5	64.1	61.5	68.0	59.0	57.0	58.0	51.0
	80.5	72.9	65.3	60.0	58.3	61.3	50.3	59.0	52.0	57.0	52.0	47.0
81	81.8	64.8	64.7	59.9	60.0	59.7	56.7	65.0	55.0	49.0	48.0	45.0
	81.8	67.9	68.1	59.4	60.0	61.3	57.3	61.0	63.0	58.0	50.0	52.0
84	80.6	70.8	69.5	61.7	60.3	68.3	58.2	59.0	61.0	45.0	47.0	49.0
	80.8	68.7	63.8	60.3	56.9	57.8	49.5	58.0	64.0	59.0	54.0	53.0
87	82.2	73.1	72.3	69.7	68.7	73.9	71.7	73.0	71.0	70.0	63.0	65.0
	86.6	76.3	72.8	68.3	67.4	63.3	61.0	72.0	75.0	61.0	57.0	61.0
88	74.8	66.8	72.3	66.4	68.9	72.6	66.1	44.0	68.0	53.0	58.0	48.0
	83.0	72.9	69.1	66.3	67.7	68.3	60.4	67.0	67.0	65.0	59.0	52.0
91	93.5	66.5	69.8	63.2	60.3	66.2	55.6	67.0	67.0	58.0	54.0	52.0
	89.7	73.7	69.1	59.7	60.5	60.6	50.6	57.0	62.0	59.0	53.0	52.0
92	86.4	62.6	54.9	45.8	46.5	49.7	42.1	46.0	43.0	41.0	35.0	35.0
	85.1	65.0	56.4	49.5	52.2	49.8	45.0	41.0	45.0	43.0	34.0	32.0
93	84.7	63.8	44.8	51.7	48.9	46.3	46.5	51.0	51.0	48.0	36.0	34.0
	83.1	66.6	58.3	49.8	53.2	60.2	45.7	46.0	46.0	44.0	36.0	34.0
98	79.0	55.2	56.6	56.1	57.2	58.8	39.2	43.0	55.0	45.0	47.0	47.0
	83.7	71.0	60.6	60.1	57.6	58.0	47.1	56.0	59.0	52.0	49.0	49.0
103	82.1	68.9	61.7	56.2	58.5	57.3	45.1	56.0	63.0	54.0	56.0	48.0
	88.7	70.5	66.8	57.8	60.5	59.3	52.5	53.0	62.0	57.0	61.0	49.0
Paint-Solvent, White (120 sec)												
66	85.7	69.3	71.9	68.1	69.7	72.0	69.1	68.0	62.0	62.0	53.0	53.0
	80.2	70.7	70.0	66.4	65.4	70.3	59.8	63.0	62.0	65.0	60.0	58.0

TABLE 42.

Colormeter Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland
Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, White (3 min or more)												
11	87.4	69.4	70.4	63.0	66.5	72.3	65.2	64.0	62.0	57.0	49.0	46.0
	88.1	71.5	68.0	64.1	64.4	62.8	54.7	62.0	65.0	59.0	48.0	48.0
94	91.2	69.7	67.8	65.0	60.5	70.1	61.6	67.0	68.0	57.0	60.0	56.0
	86.4	76.1	71.8	64.3	66.4	67.5	58.4	64.0	62.0	61.0	58.0	56.0
95	90.9	72.8	74.5	67.5	55.6	72.5	66.5	65.0	55.0	53.0	44.0	50.0
	87.9	73.1	71.9	66.8	65.4	72.7	56.6	66.0	68.0	59.0	59.0	56.0
Paint-Solvent, Yellow (60 sec)												
7	54.4	40.5	39.9	40.1	40.1	41.0	38.9	40.0	43.0	37.0	36.0	34.0
	55.7	41.9	39.9	38.2	41.2	40.5	37.3	40.0	41.0	37.0	35.0	33.0
8	57.4	46.8	42.0	39.1	41.7	42.3	38.0	42.0	44.0	36.0	36.0	31.0
	57.9	45.7	43.6	40.2	41.5	41.1	36.3	39.0	41.0	30.0	35.0	34.0
34	46.5	36.0	33.4	31.2	33.8	31.8	30.6	45.0	36.0	32.0	31.0	28.0
	46.5	36.5	33.7	34.5	33.3	35.3	31.3	35.0	35.0	29.0	30.0	28.0
36	46.9	36.7	38.3	34.7	36.3	36.5	31.9	39.0	38.0	30.0	32.0	31.0
	49.2	39.6	38.0	36.6	37.6	36.1	34.5	33.0	37.0	32.0	29.0	29.0
38	45.7	35.5	35.4	31.6	33.5	35.7	31.5	39.0	39.0	34.0	30.0	30.0
	46.8	36.9	34.1	32.5	33.1	33.5	28.7	38.0	35.0	33.0	30.0	31.0
65	48.2	41.3	40.4	36.0	38.7	40.9	34.3	47.0	40.0	34.0	34.0	31.0
	50.8	46.3	38.4	35.7	36.3	38.0	31.2	37.0	39.0	34.0	32.0	31.0
80	50.6	38.2	38.2	34.7	35.6	38.4	32.4	35.0	39.0	36.0	41.0	28.0
	49.0	38.9	37.6	36.3	35.9	37.5	32.3	36.0	39.0	34.0	35.0	38.0
85	47.2	37.8	38.0	33.5	35.8	34.0	33.5	37.0	36.0	33.0	32.0	31.0
	47.7	39.1	37.0	34.3	46.4	36.6	30.7	37.0	40.0	34.0	31.0	42.0
86	55.2	36.9	42.7	40.6	41.8	44.0	43.3	47.0	44.0	41.0	39.0	37.0
	54.4	44.8	41.4	40.7	41.2	41.3	36.1	43.0	43.0	41.0	40.0	34.0
89	55.4	40.5	40.9	39.7	38.7	41.8	38.0	24.0	42.0	39.0	35.0	33.0
	55.2	43.9	40.5	37.5	40.5	40.2	34.5	39.0	42.0	37.0	34.0	32.0
99	49.6	41.8	41.3	40.4	41.9	43.1	38.7	44.0	41.0	41.0	36.0	27.0
	48.9	42.0	41.9	40.0	40.8	41.5	38.1	40.0	41.0	38.0	36.0	32.0
102	50.3	39.8	40.0	35.0	37.2	39.3	31.7	39.0	40.0	38.0	35.0	34.0
	52.2	42.0	39.0	37.7	37.8	37.7	37.8	36.0	41.0	34.0	37.0	31.0

TABLE 42.

Colormeter Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Solvent, Yellow (120 sec)												
67	50.5	41.6	42.3	40.1	44.7	45.3	40.0	46.0	49.0	41.0	38.0	34.0
	54.0	43.2	40.5	37.8	39.7	42.3	49.8	46.0	48.0	43.0	38.0	29.0
Paint-Solvent, Yellow (3 min or more)												
12	60.4	42.4	37.8	36.0	38.4	40.3	35.1	38.0	37.0	37.0	33.0	30.0
	58.1	42.9	37.9	37.5	38.6	38.3	35.2	38.0	41.0	33.0	32.0	31.0
Paint-Water, White (60 sec)												
5	78.7	67.2	65.3	68.0	58.1	44.8	36.0	65.0	38.0	49.0	39.0	33.0
	81.3	69.2	72.6	69.0	40.4	65.4	74.1	69.0	69.0	65.0	53.0	35.0
39	86.9	65.0	74.8	70.4	70.2	75.7	76.3	57.0	45.0	58.0	31.0	51.0
	89.1	64.9	73.7	68.5	69.8	72.3	68.1	72.0	82.0	69.0	63.0	62.0
42	92.5	65.9	71.8	65.9	73.5	77.0	67.6	72.0	59.0	55.0	58.0	58.0
	92.5	56.6	61.0	66.7	62.2	62.4	66.2	68.0	69.0	61.0	61.0	55.0
45	87.5	66.0	72.9	73.5	73.2	77.0	74.2	43.0	35.0	39.0	36.0	28.0
	86.9	65.9	68.1	65.2	68.4	65.5	60.5	69.0	72.0	63.0	61.0	54.0
48	87.6	68.6	71.9	65.3	68.9	73.7	57.7	62.0	42.0	40.0	62.0	36.0
	84.3	67.8	64.9	63.8	60.4	61.5	55.6	65.0	65.0	62.0	60.0	57.0
61	83.2	74.3	74.4	66.6	68.1	80.6	74.7	43.0	70.0	65.0	61.0	36.0
	84.6	72.7	71.0	66.1	67.6	66.7	64.8	66.0	69.0	59.0	58.0	33.0
83	91.2	66.6	71.2	67.1	69.2	76.4	72.5	66.0	54.0	47.0	47.0	44.0
	91.4	68.8	69.3	73.1	64.6	66.5	59.9	65.0	69.0	54.0	66.0	61.0
96	89.2	67.0	62.1	62.5	72.4	65.8	70.3	65.0	66.0	65.0	62.0	54.0
	86.6	68.2	67.3	64.1	69.9	65.7	75.2	63.0	56.0	64.0	61.0	58.0
101	89.8	73.4	77.8	70.3	78.5	80.1	76.6	78.0	74.0	65.0	45.0	54.0
	93.2	62.7	69.8	71.2	69.5	73.0	66.6	75.0	71.0	67.0	67.0	61.0
Paint-Water, White (120 sec)												
68	92.2	73.1	44.2	65.2	57.5	33.3	28.5	0.0	31.0	29.0	25.0	34.0
	90.9	72.9	72.9	69.1	54.1	72.0	74.2	30.0	42.0	22.0	52.0	25.0
Paint-Water, Yellow (60 sec)												
9	51.9	40.8	38.7	29.3	41.2	40.7	44.9	40.0	35.0	33.0	40.0	29.0
	50.0	42.7	43.5	41.3	41.8	42.6	40.2	44.0	35.0	42.0	34.0	33.0
10	49.7	25.9	34.2	31.5	41.3	44.3	44.6	33.0	30.0	25.0	23.0	29.0
	49.9	42.5	43.1	42.9	44.8	45.9	40.0	39.0	35.0	41.0	34.0	36.0
40	51.1	39.9	43.9	34.4	44.6	47.1	45.8	35.0	30.0	29.0	40.0	33.0
	52.5	30.3	41.5	41.9	43.6	45.5	40.3	43.0	36.0	43.0	39.0	38.0

TABLE 42. Colormeter Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

COLORMETER MEASUREMENTS												
SAMPLE NUMBER	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Paint-Water, Yellow (60 sec)(continued)												
41	48.5	43.3	47.4	45.0	47.0	51.0	47.1	33.0	47.0	39.0	36.0	37.0
	49.7	36.2	42.5	44.6	43.8	44.8	42.5	41.0	41.0	35.0	38.0	32.0
43	50.5	44.4	47.3	42.0	47.1	50.1	46.6	50.0	46.0	32.0	35.0	28.0
	53.6	46.0	44.2	45.3	46.7	46.6	44.3	35.0	46.0	42.0	40.0	38.0
44	48.1	37.7	42.9	38.7	36.7	41.3	41.4	36.0	32.0	34.0	36.0	35.0
	51.9	43.0	41.6	41.6	41.2	42.2	57.7	39.0	41.0	39.0	35.0	57.0
46	47.2	41.9	44.1	37.7	41.1	48.3	35.1	40.0	41.0	37.0	27.0	34.0
	48.1	40.8	38.8	40.4	41.3	40.5	39.1	43.0	43.0	38.0	36.0	36.0
47	47.2	41.7	45.1	40.3	43.9	44.5	36.7	35.0	38.0	33.0	30.0	42.0
	49.1	41.9	44.2	41.9	42.0	42.9	41.7	41.0	46.0	43.0	40.0	36.0
57	53.0	45.5	45.6	43.8	46.8	50.4	38.9	29.0	37.0	44.0	31.0	28.0
	51.0	46.2	46.2	45.2	46.9	46.8	45.2	46.0	47.0	45.0	42.0	37.0
60	52.0	28.2	42.1	23.3	44.4	41.7	25.3	26.0	30.0	36.0	24.0	25.0
	51.6	41.1	41.0	37.7	42.7	43.8	38.3	44.0	42.0	39.0	28.0	36.0
63	51.0	41.7	43.1	37.7	40.2	45.1	42.7	43.0	42.0	42.0	31.0	38.0
	50.7	42.7	41.9	35.1	40.8	42.7	39.1	36.0	39.0	42.0	37.0	30.0
82	57.2	39.1	44.3	39.9	53.8	45.3	42.8	37.0	35.0	32.0	27.0	31.0
	56.4	43.6	42.5	40.2	42.7	43.4	39.4	45.0	44.0	34.0	25.0	38.0
97	51.4	30.1	31.8	42.8	46.6	34.1	28.0	0.0	30.0	31.0	25.0	29.0
	49.8	45.8	45.1	43.3	43.6	46.2	23.7	35.0	49.0	45.0	42.0	22.0
100	58.3	44.0	37.3	43.7	46.3	47.7	39.6	43.0	39.0	35.0	35.0	41.0
	58.1	47.0	44.4	42.7	46.7	44.9	42.5	48.0	46.0	44.0	39.0	39.0
Paint-Water, Yellow (120 sec)												
69	59.9	37.6	46.0	44.6	24.5	30.6	26.2	0.0	30.0	25.0	35.0	21.0
	58.6	36.1	40.0	39.5	43.6	37.9	35.5	43.0	39.0	28.0	32.0	27.0
Paint-Polyester, White												
70	78.6	52.8	41.0	50.6	55.6	50.2	47.3	52.0	61.0	58.0	45.0	39.0
	79.3	49.0	48.2	57.9	52.0	58.4	58.1	63.0	67.0	62.0	62.0	57.0
Paint-Polyester, Yellow												
71	50.1	39.6	37.6	34.8	31.8	28.8	38.9	44.0	45.0	39.0	39.0	37.0
	50.7	35.6	35.7	35.2	38.3	39.1	35.0	59.0	43.0	38.0	37.0	36.0
Thermoplastic-White, Alkyd												
72	76.1	65.5	72.5	63.6	70.3	74.5	67.9	74.0	72.0	60.0	58.0	57.0
	76.2	74.6	70.1	65.3	68.6	70.7	61.6	69.0	70.0	65.0	61.0	60.0

TABLE 42. Colormeter Data for Unbeaded Paint and Thermoplastic Transverse Lines on Portland Cement Concrete Pavement(Kentucky)(continued)

SAMPLE NUMBER	COLORMETER MEASUREMENTS											
	JUN 1990	JUL 1990	AUG 1990	SEPT 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	FEB 1991	MAR 1991	APR 1991	MAY 1991
Thermoplastic-White, Cold Curing												
78	86.9	70.4	77.6	70.4	77.7	77.4	75.3	74.0	67.0	64.0	60.0	58.0
	86.8	71.9	76.9	74.7	77.7	76.5	75.2	75.0	75.0	68.0	66.0	63.0
Thermoplastic-Yellow, Alkyd												
73	50.3	43.7	45.9	41.4	44.8	44.6	42.6	42.0	47.0	44.0	36.0	37.0
	49.4	48.0	45.4	45.2	46.5	47.0	38.1	48.0	50.0	41.0	31.0	39.0
Thermoplastic-Yellow, Hydrocarbon												
62	47.4	44.7	44.1	40.7	44.8	47.1	39.8	44.0	46.0	43.0	36.0	35.0
	44.3	47.7	47.0	42.7	45.3	47.2	39.9	44.0	46.0	42.0	39.0	38.0

* Top number is wheel track measurement and bottom number is centerline measurement.

Table 43. Colormeter Data for Removable Tape Lines
on Asphalt Pavement
(Kentucky)

Sample Number	JUNE 1990	JULY 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	DEC 1990
Removable Tape, White							
4 T-LW*	46.4	28.2	27.1	23.9	32.3	32.9	30.7
T-C**	45.5	27.9	25.6	24.7	27.2	30.8	25.5
L***	46.9	28.1	24.6	23.1	23.7	24.5	21.5
17 T-LW	82.8	63.9	59.3	58.3	59.3	57.6	58.7
T-C	82.7	64.0	59.8	53.8	56.5	63.4	51.4
L	83.9	68.0	61.2	60.5	61.4	62.6	60.5
76 T-LW	80.6	53.3	---	---	---	---	---
T-C	78.7	51.4	---	---	---	---	---
L	79.6	---	---	---	---	---	---
Removable Tape, Yellow							
3 T-LW	75.2	61.9	63.6	57.2	63.2	65.8	65.3
T-C	74.2	54.8	60.4	46.5	55.5	59.9	54.4
L	73.9	48.5	45.2	44.1	48.1	47.5	36.4
18 T-LW	50.3	34.4	29.5	31.1	32.2	33.2	34.3
T-C	49.7	34.6	30.4	27.5	31.6	33.5	31.6
L	50.0	37.7	33.6	33.0	33.6	34.8	33.7
77 T-LW	49.6	36.5	34.8	35.5	35.0	37.3	40.4
T-C	48.5	37.0	35.5	34.4	33.0	33.8	35.7
L	49.1	---	---	---	---	---	---

Table 44. Colormeter Data for Removable Tape Lines
on Portland Cement Concrete Pavement
(Kentucky)

Sample Number	JUNE 1990	JULY 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	DEC 1990
Removable Tape, White							
4 T-LW*	45.1	34.6	34.0	32.5	36.7	32.4	36.0
T-C**	45.5	35.0	33.9	30.2	31.0	33.0	29.5
L***	47.2	38.7	34.8	29.6	29.7	28.6	21.9
17 T-LW	80.3	65.1	65.7	56.6	59.1	65.6	62.4
T-C	80.8	67.3	65.1	57.5	55.2	65.2	57.6
L	80.7	68.6	64.3	60.2	59.6	68.0	68.6
76 T-LW	74.7	---	---	---	---	---	---
T-C	79.2	56.1	---	---	---	---	---
L	---	---	---	---	---	---	---
Removable Tape, Yellow							
3 T-LW	68.9	51.1	48.1	46.7	47.2	52.1	50.5
T-C	69.1	42.4	37.1	30.3	31.3	38.2	22.6
L	71.9	50.4	36.5	35.8	36.5	44.1	42.3
18 T-LW	50.6	36.6	35.1	31.2	33.5	34.0	35.5
T-C	50.4	36.6	32.7	29.2	31.2	33.2	25.5
L	51.0	39.2	35.2	31.9	33.8	36.5	35.7
77 T-LW	47.5	37.6	40.3	35.7	39.3	40.1	40.1
T-C	48.3	38.4	33.9	33.1	32.6	36.4	37.5
L	---	---	---	---	---	---	---

* Transverse stripe - left wheelpath.

** Transverse stripe - centerline.

*** Longitudinal stripe - centerline.

Table 45. Removability Ratings for Removable Tape Lines
on Asphalt Pavement
(Kentucky)

		SUBJECTIVE RATINGS						
Sample		JULY	AUG	SEP	OCT	NOV	DEC	
Number		1990	1990	1990	1990	1990	1990	AVG.
Removable Tape, White								
4 T		8.8	*	8.7	5.0	2.7	3.3	5.7
L		10.0	10.0	10.0	8.3	2.3	5.0	7.6
17 T		9.0	9.5	10.0	8.0	7.0	8.0	8.6
L		10.0	9.5	10.0	10.0	8.3	9.0	9.5
76 T		8.0	*	*	*	*	*	*
L		*	*	*	*	*	*	*
Removable Tape, Yellow								
3 T		*	*	*	6.0	3.0	3.0	2.0
L		9.0	10.0	10.0	8.0	3.3	6.3	7.8
18 T		9.0	9.7	10.0	9.0	7.3	9.0	9.0
L		10.0	9.8	10.0	10.0	10.0	9.0	9.8
77 T		9.0	6.3	6.0	1.0	0.0	2.0	4.1
L		*	*	*	*	*	*	*

* No Data Available

Table 46. Removability Ratings for Removable Tape Lines
on Asphalt Pavement
(Alabama)

SUBJECTIVE RATINGS							
Sample	JUNE	JULY	AUG	SEP	OCT	NOV	
Number	1990	1990	1990	1990	1990	1990	AVG.
Removable Tape, White							
4 T	4.7	0.3	0.0	0.0	0.0	0.0	0.8
L	10.0	10.0	5.0	3.3	4.7	0.0	5.5
17 T	10.0	10.0	10.0	9.0	8.0	8.7	9.3
L	10.0	10.0	10.0	10.0	10.0	10.0	10.0
76 T	*	*	9.0	*	*	*	9.0
L	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Removable Tape, Yellow							
3 T	7.7	9.0	7.3	6.7	5.3	2.7	6.5
L	10.0	10.0	10.0	9.3	8.7	10.0	9.7
18 T	10.0	10.0	10.0	10.0	10.0	9.0	9.8
L	10.0	10.0	10.0	10.0	10.0	10.0	10.0
77 T	*	*	*	*	*	*	*
L	10.0	10.0	10.0	10.0	10.0	10.0	10.0

* Test lines for which removability would be measured came up from the pavement before June 19, 1990.

Table 47. Removability Ratings for Removable Tape Lines
on Portland Cement Concrete Pavement
(Kentucky)

SUBJECTIVE RATINGS							
Sample	JULY	AUG	SEP	OCT	NOV	DEC	AVG.
Number	1990	1990	1990	1990	1990	1990	
Removable Tape, White							
4 T	0.3	6.0	0.5	0.0	0.0	0.0	1.1
L	8.7	10.0	6.0	7.0	1.7	9.0	7.1
17 T	9.3	9.0	9.0	7.0	7.0	7.3	8.1
L	10.0	9.5	10.0	9.0	8.7	8.0	9.2
76 T	8.0	*	*	*	*	*	*
L	*	*	*	*	*	*	*
Removable Tape, Yellow							
3 T	*	9.0	10.0	8.0	9.8	6.7	7.3
L	10.0	10.0	10.0	10.0	9.8	8.3	9.7
18 T	10.0	8.0	9.0	7.0	8.3	8.0	8.4
L	10.0	9.5	10.0	9.5	9.3	9.0	9.6
77 T	9.0	7.0	3.5	1.5	4.0	*	5.0
L	*	*	*	*	*	*	*

* No Data Available

Table 48. Removability Ratings for Removable Tape Lines
on Portland Cement Concrete Pavement
(Alabama)

SUBJECTIVE RATINGS							
Sample Number	JUNE 1990	JULY 1990	AUG 1990	SEP 1990	OCT 1990	NOV 1990	AVG.
Removable Tape, White							
4 T	6.7	0.0	0.0	0.0	0.0	7.3	2.3
L	10.0	10.0	10.0	8.3	8.7	9.3	9.4
17 T	10.0	10.0	9.0	9.0	10.0	7.7	9.3
L	10.0	10.0	10.0	10.0	10.0	9.7	10.0
76 T	*	*	10.0	10.0	*	*	10.0
L	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Removable Tape, Yellow							
3 T	9.0	8.0	8.3	5.3	5.0	6.7	7.1
L	10.0	9.7	9.7	8.3	9.3	9.7	9.5
18 T	10.0	10.0	10.0	10.0	7.3	6.3	8.9
L	10.0	10.0	10.0	9.7	10.0	10.0	10.0
77 T	*	*	*	9.0	7.7	*	8.4
L	10.0	10.0	10.0	10.0	10.0	10.0	10.0

* Four of the six test lines came up from the pavement before June 20, Therefore, no measure of removability could be obtained.

Table 49. Discernability Ratings for Removable Tape Lines
on Asphalt Pavement
(Kentucky)

Sample Number	Months After Removal										
	0	1	2	3	4	5	6	7	8	9	10
Removable Tape, White											
4 T	7.7	8.2	9.0	9.7	9.5	9.7	9.6	9.7	10.0	10.0	10.0
L	6.4	8.0	8.3	8.8	9.1	9.5	9.7	9.8	10.0	10.0	10.0
17 T	6.5	8.5	8.9	9.3	9.4	9.5	9.6	9.9	10.0	10.0	10.0
L	6.0	8.6	9.0	9.2	9.4	9.6	9.7	9.8	10.0	10.0	10.0
76 T	8.5	9.0	9.0	9.0	9.5	9.5	10.0	10.0	10.0	10.0	10.0
L	*	*	*	*	*	*	*	*	*	*	*
Removable Tape, Yellow											
3 T	7.5	8.7	8.8	8.6	9.1	9.3	9.3	9.3	*	*	*
L	7.2	7.4	8.5	8.9	9.3	9.5	9.6	9.8	10.0	10.0	10.0
18 T	6.0	8.7	8.9	9.2	9.4	9.5	9.7	9.8	9.9	10.0	10.0
L	6.3	8.8	9.1	9.2	9.4	9.6	9.7	9.8	10.0	10.0	10.0
77 T	6.5	6.3	6.4	7.3	7.9	8.2	8.7	8.8	8.9	9.0	8.3
L	*	*	*	*	*	*	*	*	*	*	*

* No data available.

Table 50. Discernability Ratings for Removable Tape Lines
on Asphalt Pavement
(Alabama)

Sample Number	Months After Removal										
	0	1	2	3	4	5	6	7	8	9	10
Removable Tape, White											
4 T	0.0	1.8	2.0	1.9	1.9	2.1	2.1	2.4	2.3	10.0	10.0
L	0.1	2.0	2.9	3.6	3.6	3.7	5.1	5.0	10.0	10.0	10.0
17 T	0.0	2.5	2.5	3.0	5.0	5.7	5.4	5.0	10.0	10.0	10.0
L	0.0	2.3	3.7	4.6	5.3	5.5	5.4	7.5	10.0	10.0	10.0
76 T	2.7	3.7	0.0	10.0	10.0	10.0	10.0	10.0	10.0	*	*
L	0.2	1.4	5.7	6.4	7.1	6.7	10.0	10.0	10.0	10.0	10.0
Removable Tape, Yellow											
3 T	0.0	2.0	2.1	3.0	4.2	4.8	5.1	4.5	9.6	10.0	10.0
L	0.0	2.3	3.3	4.0	4.1	4.2	5.1	4.9	6.7	10.0	10.0
18 T	0.0	2.6	2.7	3.2	4.7	5.8	5.9	7.4	9.9	10.0	10.0
L	0.0	2.5	2.7	4.1	4.2	4.6	5.0	5.0	6.7	10.0	10.0
77 T	*	*	*	*	*	*	*	*	*	*	*
L	0.2	0.9	1.7	2.1	2.8	5.4	4.7	4.5	10.0	10.0	10.0

* No data available.

Table 51. Discernability Ratings for Removable Tape Lines
on Portland Cement Concrete Pavement
(Kentucky)

Sample Number	Months After Removal										
	0	1	2	3	4	5	6	7	8	9	10
Removable Tape, White											
4 T	5.8	7.9	8.2	8.3	8.9	9.0	9.1	8.9	9.0	8.9	9.0
L	6.8	7.6	8.1	8.0	8.5	8.5	8.7	8.7	9.1	9.2	9.3
17 T	5.1	8.2	8.5	8.5	9.0	9.4	9.6	9.8	10.0	10.0	10.0
L	5.5	8.9	9.5	9.7	9.8	9.8	9.8	9.8	10.0	10.0	10.0
76 T	8.7	9.0	9.7	9.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0
L	*	*	*	*	*	*	*	*	*	*	*
Removable Tape, Yellow											
3 T	7.4	8.1	8.0	8.4	8.7	8.9	8.8	9.2	9.0	9.0	*
L	7.8	8.1	8.3	8.4	9.0	9.0	9.3	9.2	9.4	9.3	9.3
18 T	5.5	8.4	8.3	8.6	9.1	9.6	9.8	9.9	10.0	10.0	10.0
L	5.7	8.9	9.4	9.8	9.9	9.8	9.7	9.8	10.0	10.0	10.0
77 T	5.6	5.8	6.4	6.5	7.0	7.1	7.9	7.4	8.5	8.9	10.0
L	*	*	*	*	*	*	*	*	*	*	*

* No data available.

Table 52. Discernability Ratings for Removable Tape Lines
on Portland Cement Concrete Pavement
(Alabama)

Sample Number	Months After Removal										
	0	1	2	3	4	5	6	7	8	9	10
Removable Tape, White											
4 T	1.2	0.8	0.7	0.8	0.1	0.1	0.3	0.4	0.2	0.0	0.0
L	1.9	1.2	0.8	1.4	0.9	0.9	0.9	0.3	0.0	0.0	0.0
17 T	0.9	1.6	2.0	4.7	5.0	5.4	6.0	7.5	10.0	10.0	10.0
L	1.5	4.8	6.2	7.0	8.0	10.0	10.0	10.0	10.0	10.0	10.0
76 T	0.7	2.4	6.0	10.0	10.0	10.0	10.0	10.0	10.0	*	*
L	2.4	6.0	9.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Removable Tape, Yellow											
3 T	0.7	1.1	0.8	1.1	0.8	0.3	0.1	0.0	0.0	0.0	0.0
L	1.7	1.7	1.0	2.1	2.1	1.5	1.6	0.9	0.2	0.0	0.0
18 T	0.6	1.9	2.2	4.0	4.7	5.1	6.0	7.5	10.0	10.0	10.0
L	0.7	5.0	6.9	8.6	8.0	8.3	10.0	10.0	10.0	10.0	10.0
77 T	0.0	2.2	1.7	5.7	8.0	9.7	10.0	10.0	*	*	*
L	3.2	5.1	8.3	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

* Four of the six test lines came up from the pavement before June 20, 1990. Therefore, discernability could only be measured for two test lines. Neither one of the two test lines which remained in place for sample 76T were in place longer than eight months at the end of the twelve-month period. Nor were the two remaining test lines for sample 77T in place for longer than 7 months.

APPENDIX A
TWO-YEAR SUMMARY OF DATA FOR 1989 TEST DECKS

TABLE A1. STRIPING MATERIALS TESTED (RTF89)

COMPANY	SAMPLE NUMBER	TYPE*
Flint Trading Co.	STR-89-1	PREMARK Thermoplastic, Preformed
Baltimore Paint	STR-89-2	Setfast White BP50-24 Paint LF-A (15 M)
	STR-89-3	Setfast Yellow BP50-25 Paint L-A (15 M)
	STR-89-4	Hotline White BP50-26 Paint LF-A (FD 60)
	STR-89-5	Hotline Yellow BP50-27 Paint L-A (FD 60)
	STR-89-6	Hotline White BP50-28 Paint LF-A (FD 60)
	STR-89-7	Hotline Yellow BP50-29 Paint L-A (FD 60)
	STR-89-8	Hotline White BP50-30 Paint LF-A (FD 60)
	STR-89-9	Hotline Yellow BP50-31 Paint L-A (FD 60)
	STR-89-10	Hotline White BP50-32 Paint LF-A (FD 60)
	STR-89-11	Hotline Yellow BP50-33 Paint L-A (FD 60)
	STR-89-12	Setfast White BP50-34 Paint L-CRA (3-5 M)
	STR-89-13	Setfast Yellow BP50-35 Paint L-CRA (3-5 M)
	STR-89-14	Hotline Waterbourne White BP50-36 Paint LF-ALP (FD 60)
	STR-89-15	Hotline Waterbourne Yellow BP50-37 Paint L-ALP (FD 60)

TABLE A1. STRIPING MATERIALS TESTED (RTF89) (CONTINUED)

COMPANY	SAMPLE NUMBER	TYPE*
Baltimore Paint	STR-89-16	Hotline Waterbourne White BP50-38 Paint LF-ALP (FD 60)
	STR-89-17	Hotline Waterbourne Yellow BP50-39 Paint L-ALP (FD 60)
	STR-89-18	Hotline Waterbourne Yellow BP50-41 Paint LF-ALP (FD 60)
	STR-89-19	Hotline Waterbourne White BP50-42 Paint LF-ALP (FD 60)
	STR-89-20	Hotline Waterbourne Yellow BP50-43 Paint L-ALP (FD 60)
	STR-89-21	Setfast Polyester White BP50-44 Paint LF-UPR (30 M)
	STR-89-22	Setfast Polyester Yellow BP50-45 Paint L-UPR (30 M)
	STR-89-23	Setfast Polyester White BP50-46 Paint LF-UPR (FD 90)
	STR-89-24	Setfast Polyester Yellow BP50-47 Paint L-UPR (FD 90)
	STR-89-25	Hotline Waterbourne Yellow BP50-49 Paint LF-ALP (FD 60)
	STR-89-26	Hotline Waterbourne Yellow BP50-51 Paint LF-ALP (FD 60)
3M	STR-89-27	Scotchlane Tape Construction Grade Series 5161 NR

TABLE A1. STRIPING MATERIALS TESTED (RTF89) (CONTINUED)

COMPANY	SAMPLE NUMBER	TYPE*
3M	STR-89-28	Scotchlane Tape Detour Grade Series 5711 R
	STR-89-29	Scotchlane Tape Detour Grade Series 5710 R
	STR-89-30	Scotchlane Tape Construction Grade Series 5160 NR
Degussa Corporation	STR-89-31	Degaroute 460 White LF Methacrylate (10-15 M)
	STR-89-32	Degaroute 465 White LF Methacrylate (10-15 M)
Linear Dynamics, Inc.	STR-89-34	LW-89-1-W Yellow Thermoplastic L-H
	STR-89-35	LW-89-1-V White Thermoplastic LF-H
	STR-89-36	Prismo Plastix-I Yellow Tape P
	STR-89-37	Prismo Plastix-I White Tape P
	STR-89-38	Prismoline TRT White Tape R
	STR-89-39	Prismoline TRT Yellow Tape R
	STR-89-40	LW-89-1-D Yellow Paint L-A (FD 60)
	STR-89-41	LW-89-1-C White Paint LF-A (FD 60)
	STR-89-42	LW-89-1-B Yellow Paint L-A (FD 60)
	STR-89-43	LW-89-1-A White Paint LF-A (FD 60)

TABLE A1. STRIPING MATERIALS TESTED (RTF89) (CONTINUED)

COMPANY	SAMPLE NUMBER	TYPE*
Linear Dynamics, Inc.	STR-89-44	ACL11Y Yellow Paint L-ALP (FD 90)
	STR-89-45	ACL11W White Paint LF-ALP (FD 90)
	STR-89-46	LW1-89-1-Z Thermoplastic L-A
	STR-89-47	LW-89-1-Y Thermoplastic LF-A
Ennis/Centerline, Inc.	STR-89-48	EN-9013 Yellow Paint LF-ALP (FD 60)
	STR-89-49	EN-9011 Yellow Paint L-ALP (FD 60)
	STR-89-50	EN-9000 White Paint LF-A (FD 60)
	STR-89-51	EN-9010 White Paint LF-ALP (FD 60)
	STR-89-52	EN-9001 Yellow Paint L-A (FD 60)
	STR-89-53	EN-9005 Yellow Paint LF-A (FD 60)
Cataphote	STR-89-54	Catatile Detour Grade White Tape R
	STR-89-55	Catatile White Tape P
	STR-89-56	Catatile Yellow Tape P
	STR-89-57	Catatherm Yellow Thermoplastic L-H (15 M)
	STR-89-58	Catatherm White Thermoplastic LF-H (15 M)
	STR-89-59	Catatherm Yellow Thermoplastic L-A (15 M)

TABLE A1. STRIPING MATERIALS TESTED (RTF89) (CONTINUED)

COMPANY	SAMPLE NUMBER	TYPE*
Cataphote	STR-89-60	Catatherm White Thermoplastic LF-A (15 M)
	STR-89-61	Catatile Detour Grade Yellow Tape R
	STR-89-62	Nico-Dur Tape P

* The following codes were used to describe the types of striping material:

L - Leaded
LF - Lead Free
A - Alkyd
CRA - Chlorinated Rubber Alkyd
ALP - Acrylic Latex Polymer
UPR - Unsaturated Polymer Resin
FD - Fast Dry
H - Hydrocarbon
P - Permanent
R - Removable
NR - Nonremovable

TABLE A2. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 89)

REFLECTIVITY MEASUREMENT*												
SAMPLE	SEPT89		JAN90		MAY90		SEPT90		JAN91		MAY91	
NUMBER	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Solvent, White (60 sec)												
4 th	122	160	119	117	79	54	52	37	49	30	34	---
	163	189	148	179	125	147	122	148	119	139	103	105
6	135	152	138	109	82	89	73	54	85	41	58	32
	198	219	167	168	140	142	108	141	124	124	101	99
8	111	155	90	88	57	45	35	34	32	22	18	---
	142	197	148	164	89	148	94	132	87	113	82	87
10	131	141	98	87	62	47	43	32	41	23	26	---
	169	185	162	157	120	120	103	108	108	95	76	63
41	148	152	97	103	52	82	37	43	39	53	21	35
	184	186	155	145	124	119	88	87	94	98	66	84
43	139	110	95	79	47	65	27	58	24	45	14	34
	184	142	175	107	136	93	114	163	108	70	70	60
50	112	144	103	99	52	57	42	38	42	38	27	---
	151	180	156	175	117	136	115	104	119	132	94	102
Paint - Solvent, White (3 min or more)												
2	182	198	181	147	123	101	98	74	114	84	58	59
	221	212	221	185	179	180	170	148	175	148	144	117
12	159	180	137	107	75	78	61	53	68	58	35	44
	224	232	183	188	132	121	110	111	104	122	79	81
Paint - Solvent, Yellow (60 sec)												
5	81	105	101	81	73	57	61	42	76	35	56	28
	100	141	110	118	101	100	99	89	97	84	84	71
7	84	110	92	83	64	64	50	42	65	41	43	30
	112	147	107	120	94	93	91	88	92	87	94	69
9	91	98	97	70	61	53	44	36	42	30	27	27
	123	126	118	98	103	83	91	73	97	72	83	57
11	97	98	86	73	47	46	32	31	33	26	22	24
	129	128	124	100	91	81	94	73	93	67	80	51
40	101	153	113	105	68	59	54	53	58	41	39	30
	152	189	154	130	134	103	112	119	125	94	115	74
42	111	129	91	83	45	57	31	49	35	38	21	30
	151	151	144	124	116	88	102	84	103	79	75	59
52	80	83	70	53	42	44	27	28	33	25	28	24
	114	104	105	98	82	76	58	90	73	65	44	55
53	72	93	70	86	39	39	28	119	34	24	21	24
	88	101	99	104	86	87	74	260	79	79	58	62
Paint - Solvent, Yellow (3 min or more)												
3	128	182	133	141	85	94	73	64	98	76	51	47
	192	214	189	169	127	144	134	132	122	132	108	108
13	134	153	125	98	68	71	49	48	66	56	31	39
	196	198	149	149	108	97	86	88	96	94	76	57

TABLE A2. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 89) (continued)

REFLECTIVITY MEASUREMENT*												
SAMPLE	SEPT89		JAN90		MAY90		SEPT90		JAN91		MAY91	
NUMBER	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Water, White (60 sec)												
14	124	200	131	99	80	68	81	48	101	53	70	35
	184	231	184	187	129	150	122	110	158	154	117	92
18	135	211	133	121	88	87	82	58	97	58	82	40
	214	246	221	195	161	151	140	130	181	148	135	110
51	86	101	95	78	58	56	41	32	60	41	39	17
	114	123	133	137	87	107	75	72	100	134	74	98
Paint - Water, White (90 sec)												
19	152	212	139	131	75	91	60	58	84	72	58	47
	242	255	228	202	158	165	138	144	185	176	133	122
45	177	229	188	193	130	120	99	108	147	94	85	59
	235	292	287	318	234	257	224	99	293	301	217	222
Paint - Water, Yellow (60 sec)												
15	146	175	148	98	92	68	74	40	97	49	82	36
	212	212	190	165	171	136	130	123	184	142	127	106
17	123	154	137	100	83	89	68	47	93	59	81	44
	189	187	195	186	152	132	129	120	189	127	133	107
18	83	151	87	98	81	65	45	40	69	47	52	34
	138	189	145	147	114	120	108	108	132	116	98	92
20	151	163	125	99	72	78	52	197	66	59	49	40
	259	177	235	164	171	124	149	349	178	138	130	104
25	98	200	88	126	52	59	34	38	51	41	37	30
	206	243	188	218	130	164	119	159	142	156	84	120
26	106	113	113	82	66	59	49	35	72	41	60	32
	192	139	181	130	146	107	129	103	177	113	119	87
48	59	74	71	53	47	43	29	31	55	27	25	27
	80	97	91	96	73	79	56	73	70	82	60	68
49	70	81	82	66	56	54	37	37	64	44	36	31
	91	101	105	100	82	87	63	137	84	85	71	70
Paint - Water, Yellow (90 sec)												
44	111	136	129	136	84	87	64	83	96	82	77	53
	168	173	192	193	155	163	151	239	186	191	156	158
Paint - Polyester, White (90 sec)												
23	309	263	270	---	221	---	199	---	204	---	190	---
	344	308	328	283	267	243	292	215	296	---	271	---
Paint - Polyester, White (30 min)												
21	303	327	266	291	228	224	205	187	223	229	215	146
	329	364	327	370	308	343	308	349	310	356	306	309
Paint - Polyester, Yellow (90 sec)												
24	187	198	182	---	130	---	119	38	129	---	102	---
	217	218	198	214	182	196	183	159	173	183	170	164
Paint - Polyester, Yellow (30 min)												
22	183	184	147	171	114	136	102	117	119	136	108	95
	190	188	179	193	163	180	144	173	165	186	142	176

TABLE A2. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 89) (continued)

REFLECTIVITY MEASUREMENT*													
SAMPLE	SEPT89		JAN90		MAY90		SEPT90		JAN91		MAY91		
NUMBER	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	
Thermoplastic - White, Alkyd													
47	142	179	196	195	211	222	222	25	204	197	198	200	
	265	406	184	141	179	177	244	73	249	211	299	220	
80	362	449	347	350	300	332	274	102	311	285	274	245	
	384	528	395	420	417	401	426	244	380	384	383	354	
Thermoplastic - White, Hydrocarbon													
35	142	157	184	179	175	197	185	44	189	159	151	162	
	329	308	161	142	207	183	262	76	248	228	253	213	
58	347	382	286	293	248	265	240	143	273	211	251	—	
	369	499	378	378	371	372	342	182	340	354	288	301	
Methacrylate - White													
31 ^{***}	287	—	183	—	138	—	97	—	144	—	118	—	
	382	—	337	—	323	—	218	—	185	—	191	—	
32	223	275	147	142	112	153	83	82	99	95	88	104	
	266	304	229	256	221	230	168	103	153	164	156	167	
Thermoplastic - Yellow, Alkyd													
46	117	113	103	94	125	132	126	213	110	81	124	94	
	186	167	82	59	89	84	105	182	95	85	122	104	
59	155	208	141	152	155	171	144	1040	142	138	144	127	
	204	230	172	175	193	199	200	408	172	151	181	167	
Thermoplastic - Yellow, Hydrocarbon													
34	88	111	81	83	99	124	98	155	88	74	99	84	
	170	185	90	87	92	93	108	234	97	116	134	116	
57	169	152	128	134	128	136	110	230	124	109	124	97	
	218	180	161	161	184	184	173	360	142	147	147	137	
Preformed Thermoplastic, White													
1	268	326	153	166	139	185	151	157	156	150	153	145	
	407	395	299	269	301	261	174	194	172	185	174	155	
Permanent Tape, White													
37	164	207	155	181	122	127	77	43	92	100	81	89	
	239	302	176	247	180	214	114	103	119	179	97	148	
55	429	432	188	196	125	127	99	82	108	111	107	101	
	598	613	409	506	351	442	276	199	251	306	205	252	
62	316	375	176	185	114	114	93	0	125	94	102	82	
	404	427	288	351	265	338	242	0	240	265	197	228	
Temporary Tape, White													
30	491	518	233	241	147	126	157	91	153	70	100	84	
	642	642	473	539	412	431	197	323	156	188	112	123	
Permanent Tape, Yellow													
36	91	139	84	90	73	77	45	82	53	51	51	54	
	150	180	75	134	113	135	61	134	58	77	61	72	
56	283	308	146	145	106	98	120	99	120	83	92	80	
	405	418	275	351	259	322	200	141	188	215	173	170	
Temporary Tape, Yellow													
27	343	367	179	202	114	108	68	84	88	73	75	62	
	400	461	302	378	258	332	217	263	194	255	159	221	

* Millicandelas per square foot per footcandle.

** Top number is left wheel track measurement and bottom number is centerline measurements.

*** White Thermoplastic #31 was not available for the concrete deck.

TABLE A3. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(ALABAMA) (RTTF89)

REFLECTIVITY MEASUREMENT*												
SAMPLE NUMBER	AUG88		DEC88		APR89		AUG89		DEC89		APR91	
	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Solvent, White (80 sec)												
4 th	183	115	94	108	116	115	77	108	72	75	83	70
	170	148	136	108	117	142	137	165	108	92	108	85
6	174	104	94	103	119	116	0	98	0	88	0	86
	181	141	142	107	137	130	0	151	0	92	0	87
8	170	129	92	115	107	126	0	98	0	89	0	85
	180	180	113	122	126	154	0	180	0	87	0	87
10	180	127	75	107	94	100	0	0	0	0	0	0
	181	183	124	115	116	133	0	0	0	0	0	0
41	174	184	101	129	114	134	87	101	73	82	82	80
	209	194	149	138	138	152	147	140	114	114	85	92
43	173	147	82	122	99	126	75	104	55	78	85	72
	219	192	136	139	108	150	128	134	92	85	74	83
50	171	131	93	111	102	103	80	0	68	0	98	0
	202	148	141	122	125	146	145	0	114	0	98	0
Paint - Solvent, White (3 min or more)												
2	204	182	104	144	129	152	113	127	90	100	100	77
	194	202	154	150	153	181	186	185	144	130	131	114
12	185	164	91	131	111	135	79	117	77	99	85	89
	242	187	168	137	151	156	150	161	109	126	86	107
Paint - Solvent, Yellow (80 sec)												
5	135	94	77	76	102	99	70	93	64	63	77	58
	142	109	90	88	83	110	115	123	83	73	78	67
7	114	86	73	73	87	92	70	81	67	57	81	57
	118	107	86	78	88	106	100	128	84	67	83	60
9	138	102	85	83	102	105	59	94	52	64	68	63
	120	130	94	85	101	125	106	136	92	76	86	68
11	138	86	80	82	86	91	51	90	48	56	65	52
	132	107	101	83	100	101	98	113	89	64	81	62
40	170	133	83	109	118	117	83	96	75	75	92	78
	189	139	108	119	105	139	110	133	89	103	89	90
42	167	124	82	99	130	114	78	97	64	69	91	75
	171	144	113	117	99	131	112	133	78	108	71	72
52	147	109	74	103	112	90	76	81	64	58	95	55
	145	142	98	99	112	116	98	108	82	76	82	69
53	135	105	69	83	101	87	77	74	64	48	79	50
	133	148	83	97	89	113	78	112	68	76	77	66
Paint - Solvent, Yellow (3 min or more)												
3	170	159	95	156	106	158	78	129	77	104	80	92
	188	173	135	155	111	181	139	175	119	119	114	82
13	158	88	85	87	111	101	84	85	72	80	91	64
	178	117	147	82	123	111	137	121	80	73	80	68

TABLE A3. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(ALABAMA) (RTF88) (continued)

SAMPLE NUMBER	REFLECTIVITY MEASUREMENT*											
	AUG89		DEC89		APR90		AUG90		DEC90		APR91	
	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Water, White (90 sec)												
14	181	147	93	148	127	147	0	84	0	77	0	83
	183	175	127	189	112	159	0	151	0	141	0	118
16	157	137	106	144	115	140	85	80	82	70	100	80
	190	185	188	147	130	165	121	150	103	142	108	115
51	143	115	74	115	85	114	0	0	0	0	0	0
	131	159	119	163	85	157	0	0	0	0	0	0
Paint - Water, White (90 sec)												
19	175	141	104	143	125	133	83	89	85	71	94	77
	187	181	160	152	128	152	117	149	106	131	104	119
45	133	162	88	188	112	170	0	0	0	0	0	0
	63	187	59	205	69	208	0	0	0	0	0	0
Paint - Water, Yellow (90 sec)												
15	158	180	89	148	101	142	71	102	81	80	82	80
	178	170	148	150	121	159	121	186	103	124	105	112
17	169	150	100	145	112	138	81	97	107	77	129	74
	201	160	152	154	140	144	129	156	112	119	124	92
18	152	155	101	140	100	147	0	110	0	85	0	79
	203	169	169	164	141	169	0	168	0	125	0	109
20	148	145	91	141	110	135	87	100	75	74	88	70
	236	181	143	132	119	159	126	149	105	124	113	102
25	145	137	89	127	89	138	63	0	67	0	85	0
	168	167	145	140	118	170	132	0	97	0	83	0
26	137	143	78	134	90	142	69	109	69	88	92	86
	152	184	131	153	107	185	119	166	93	157	91	111
48	95	87	55	92	69	92	0	0	0	0	0	0
	81	116	57	110	70	116	0	0	0	0	0	0
49	97	90	60	100	75	90	0	0	0	0	0	0
	91	125	80	118	65	123	0	0	0	0	0	0
Paint - Water, Yellow (90 sec)												
44	120	127	74	139	86	129	0	0	0	0	0	0
	73	152	48	161	83	156	0	0	0	0	0	0
Paint - Polyester, White (90 sec)												
23	247	191	150	64	165	112	0	0	0	0	0	0
	146	231	114	206	171	201	0	0	0	0	0	0
Paint - Polyester, White (30 min)												
21	222	221	146	209	139	204	114	0	112	0	110	0
	263	247	220	237	180	255	183	0	188	0	169	0
Paint - Polyester, Yellow (90 sec)												
24	181	100	93	54	128	98	0	0	0	0	0	0
	128	150	101	91	110	126	0	0	0	0	0	0
Paint - Polyester, Yellow (30 min)												
22	134	124	83	117	91	123	71	0	72	0	81	0
	149	143	122	135	113	156	110	0	111	0	108	0
Thermoplastic - White, Alkyd												
47	276	159	123	155	161	184	217	218	178	217	147	159
	206	326	105	160	146	180	156	221	163	212	194	207
60	297	431	172	362	201	355	205	402	200	284	167	256
	312	451	225	359	208	367	254	366	217	367	257	331

TABLE A3. Reflectivity Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(ALABAMA) (RTF89) (continued)

REFLECTIVITY MEASUREMENT*												
SAMPLE NUMBER	AUG89		DEC89		APR90		AUG90		DEC90		APR91	
	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Thermoplastic - White, Hydrocarbon												
35	212	153	115	183	188	208	177	251	142	207	137	131
	199	214	123	188	158	203	185	304	202	281	215	255
58	308	401	204	298	232	288	227	320	202	258	187	242
	313	385	232	327	229	318	222	345	211	320	265	295
Methacrylate - White												
31	271	429	108	204	133	308	82	178	110	148	85	159
	308	431	182	278	180	410	172	245	183	245	147	220
32	212	381	89	205	122	178	88	159	102	150	80	115
	252	377	146	244	113	281	144	204	130	171	121	177
Thermoplastic - Yellow, Alkyd												
48	155	151	73	103	134	118	115	182	89	133	82	102
	108	183	88	99	81	137	108	153	107	128	127	135
59	228	185	98	164	162	142	118	173	128	144	127	117
	164	182	127	171	132	185	137	181	114	145	141	180
Thermoplastic - Yellow, Hydrocarbon												
34	138	124	65	90	133	103	105	147	100	118	107	103
	159	186	69	91	72	100	101	149	105	135	144	137
57	174	167	81	124	123	134	118	149	100	111	105	114
	166	180	116	168	105	183	111	175	114	158	118	153
Preformed Thermoplastic, White												
1	243	330	120	213	168	190	151	202	136	159	132	120
	235	362	144	284	138	230	143	214	128	184	142	182
Permanent Tape, White												
37	158	210	96	181	104	292	87	149	54	105	87	98
	323	325	282	287	207	289	208	247	152	197	181	185
55	281	343	136	217	138	278	111	190	94	135	118	119
	422	411	293	344	244	367	224	302	184	252	197	232
62	255	314	136	238	147	280	85	209	79	148	99	115
	337	377	276	343	205	343	208	309	173	277	198	213
Temporary Tape, White												
30	212	247	100	203	137	209	95	147	87	110	81	82
	391	398	283	303	208	240	183	272	112	223	120	148
Permanent Tape, Yellow												
38	229	142	88	100	99	172	84	98	47	64	85	84
	204	244	219	174	153	188	144	169	121	125	124	130
58	228	216	108	185	131	173	89	153	83	107	100	105
	318	291	257	222	198	258	221	232	188	218	166	157
Temporary Tape, Yellow												
27	175	182	88	191	97	206	95	138	70	110	83	88
	293	338	208	281	164	234	154	250	118	215	131	175

* Millicandelas per square foot per footcandle.

** Top number is wheel track measurement and bottom number is centerline measurements.

TABLE A4. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 89)

SUBJECTIVE RATINGS													
SAMPLE	SEPT89		JAN90		MAY90		SEPT90		JAN91		MAY91		
NUMBER	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	
Paint - Solvent, White (60 sec)													
4	10.0	10.0	9.2	9.5	8.0	8.8	7.4	6.3	5.6	5.0	4.8	2.0	
6	10.0	10.0	9.3	9.4	9.0	8.3	5.5	4.6	7.7	3.7	7.5	1.8	
8	10.0	10.0	8.7	9.2	7.3	6.8	6.8	2.0	4.8	0.8	3.9	0.1	
10	10.0	10.0	8.2	9.2	7.0	6.3	6.8	0.6	5.2	0.8	4.4	0.8	
41	10.0	9.9	7.3	9.5	6.2	8.4	5.5	8.8	4.3	6.7	3.7	3.0	
43	10.0	9.9	7.0	9.5	5.8	8.4	5.3	7.7	4.0	6.6	2.9	3.3	
50	10.0	10.0	8.8	9.6	7.3	8.0	7.6	3.8	5.4	3.2	4.2	0.9	
Paint - Solvent, White (3 min or more)													
2	10.0	9.9	9.7	9.4	9.4	8.9	9.3	9.0	8.7	7.5	8.0	4.9	
12	10.0	9.9	9.5	9.7	9.3	9.0	9.3	9.3	8.5	7.8	8.0	7.2	
Paint - Solvent, Yellow (60 sec)													
5	10.0	10.0	9.2	9.3	8.1	7.5	8.1	6.3	7.1	4.8	5.8	4.0	
7	10.0	10.0	9.3	9.4	8.4	7.5	8.3	6.2	7.6	5.1	6.7	4.4	
9	10.0	9.9	9.3	9.3	7.7	6.8	7.8	5.8	6.1	4.4	5.2	2.4	
11	10.0	10.0	9.0	9.1	6.8	6.0	6.6	3.7	5.0	2.5	4.4	1.8	
40	10.0	10.0	8.9	9.3	7.2	7.5	7.5	6.0	6.3	5.3	5.6	4.8	
42	10.0	10.0	7.5	9.3	5.7	7.3	5.5	6.3	4.3	5.3	3.9	4.3	
52	10.0	10.0	8.8	9.3	7.1	6.6	7.3	5.1	5.6	4.0	4.1	1.8	
53	10.0	10.0	9.0	9.3	7.4	6.5	6.9	5.3	5.0	3.5	4.0	1.3	
Paint - Solvent, Yellow (3 min or more)													
3	10.0	9.9	9.5	9.2	8.9	8.2	9.1	7.1	8.5	7.2	8.3	6.6	
13	10.0	9.9	9.3	9.5	8.6	8.0	8.8	7.6	8.0	7.5	7.6	6.8	
Paint - Water, White (60 sec)													
14	10.0	9.9	9.6	7.0	9.5	4.8	9.5	4.0	9.3	3.2	8.8	1.9	
16	10.0	10.0	9.6	8.3	9.0	6.5	9.1	5.6	8.2	5.0	7.4	2.4	
51	9.5	6.6	8.3	4.8	7.6	2.5	7.3	2.1	6.3	2.0	6.2	0.8	
Paint - Water, White (90 sec)													
19	10.0	10.0	9.5	8.4	9.0	7.5	9.1	6.8	8.1	6.2	8.0	5.3	
45	10.0	8.5	9.6	8.2	9.0	7.6	9.2	7.2	8.5	6.8	8.0	6.0	
Paint - Water, Yellow (60 sec)													
15	10.0	9.4	9.5	7.3	9.5	4.4	9.4	4.7	9.3	3.9	8.9	2.1	
17	10.0	9.7	9.3	8.2	8.8	5.0	8.9	4.9	8.3	4.4	7.8	2.8	
18	8.8	9.4	8.6	7.9	7.7	5.0	8.1	4.4	7.5	4.0	7.7	3.1	
20	10.0	9.9	9.3	8.4	8.8	6.4	8.8	6.3	7.8	5.6	7.2	5.0	
25	9.2	9.8	9.3	8.4	8.6	6.1	8.7	5.5	8.1	4.6	7.9	3.0	
26	9.1	9.7	9.0	8.2	8.5	5.6	8.6	5.5	8.4	4.7	8.3	2.9	
48	9.3	5.7	8.5	4.0	7.8	2.8	7.8	2.1	7.2	1.9	7.5	1.1	
49	9.5	5.6	8.8	3.9	7.9	2.9	8.0	2.6	7.3	2.8	7.7	2.0	
Paint - Water, Yellow (90 sec)													
44	9.6	8.4	9.3	8.0	8.6	6.6	8.6	6.1	8.4	5.9	8.3	5.1	
Paint - Polyester, White (90 sec)													
23	10.0	1.3	9.9	0.1	9.8	0.0	9.5	0.0	9.5	0.0	8.8	3.3	
Paint - Polyester, White (90 sec)													
21	10.0	10.0	10.0	9.1	9.8	8.1	9.5	4.8	9.5	5.5	8.7	5.0	

TABLE A4. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 89)(continued)

SUBJECTIVE RATINGS													
SAMPLE	SEPT89		JAN90		MAY90		SEPT90		JAN91		MAY91		
NUMBER	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	
Paint - Polyester, Yellow (90 sec)													
24	10.0	6.0	9.9	0.5	9.8	0.1	9.6	0.3	9.5	0.0	8.8	0.8	
Paint - Polyester, Yellow (90 sec)													
22	9.8	10.0	9.5	9.3	9.3	8.3	8.8	7.7	9.0	7.6	8.3	7.2	
Thermoplastic - White, Alkyd													
47	10.0	10.0	9.4	9.8	9.4	9.7	8.8	9.7	7.5	9.5	7.5	6.0	
60	10.0	10.0	9.0	9.2	9.2	8.7	9.0	9.4	8.7	8.7	8.2	5.1	
Thermoplastic - White, Hydrocarbon													
35	9.9	10.0	9.5	9.9	9.5	9.2	9.3	9.0	8.3	7.8	7.9	7.8	
58	10.0	10.0	9.6	9.8	9.7	8.5	9.7	7.1	9.2	5.0	8.8	5.8	
Methacrylate - White													
31*	10.0	---	9.9	---	10.0	---	10.0	---	9.8	---	9.7	---	
32	10.0	10.0	9.8	9.8	9.9	9.9	9.9	9.8	9.7	9.8	9.3	8.7	
Thermoplastic - Yellow, Alkyd													
46	10.0	10.0	9.0	9.8	9.5	9.5	9.7	9.7	9.0	9.4	8.8	7.0	
59	10.0	10.0	8.9	9.1	9.2	8.6	9.0	9.5	8.8	8.6	8.5	8.0	
Thermoplastic - Yellow, Hydrocarbon													
34	10.0	10.0	9.3	9.8	9.7	9.4	9.7	9.4	9.3	8.3	9.0	7.3	
57	9.9	10.0	9.5	9.8	9.5	9.1	9.7	9.4	9.2	8.5	9.3	8.3	
Preformed Thermoplastic, White													
1	10.0	10.0	9.4	9.5	9.6	9.4	9.6	9.7	9.0	8.2	8.7	7.4	
Permanent Tape, White													
37	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	10.0	10.0	10.0	10.0	
55	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
62	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Temporary Tape, White													
30	10.0	10.0	9.8	10.0	9.3	9.0	9.3	9.3	8.5	7.7	9.3	7.8	
Permanent Tape, Yellow													
36	10.0	10.0	10.0	9.9	10.0	10.0	10.0	9.7	10.0	10.0	10.0	10.0	
56	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Temporary Tape, Yellow													
27	9.3	10.0	8.8	9.5	8.5	8.4	8.5	8.0	7.8	7.5	7.6	7.3	

* White thermoplastic #31 was not available for the PCC pavement.

TABLE A5. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Alabama) (RTF 89)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	AUG89		DEC89		APR90		AUG90		DEC90		APR91	
	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Solvent, White (60 sec)												
4	9.4	9.9	7.2	8.7	6.4	8.1	6.2	8.0	4.3	6.4	3.9	6.7
6	9.2	9.8	6.9	8.6	5.7	7.8	0.0	7.9	0.0	6.4	0.0	6.8
8	9.2	9.9	6.8	8.7	5.7	7.8	0.0	8.1	0.0	5.6	0.0	6.5
10	8.8	9.8	6.6	7.8	5.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
41	9.3	9.8	8.0	8.7	7.0	7.3	6.6	7.5	4.8	6.3	4.5	6.0
43	9.3	9.5	7.8	8.4	6.4	7.1	6.3	7.3	3.4	5.5	3.6	5.8
50	9.3	9.7	8.0	8.7	5.8	6.6	6.7	0.0	4.5	0.0	4.6	0.0
Paint - Solvent, White (3 min or more)												
2	9.3	9.9	8.2	8.8	7.3	8.0	6.8	6.1	4.8	6.6	4.7	7.1
12	9.5	9.2	7.8	9.0	7.0	8.4	6.8	6.6	4.5	7.0	4.7	7.4
Paint - Solvent, Yellow (60 sec)												
5	9.5	9.8	8.3	8.6	7.4	8.2	7.1	8.6	5.5	7.0	4.7	7.3
7	9.6	9.9	8.3	8.7	7.7	8.2	7.5	8.5	5.9	7.0	5.3	7.0
9	9.3	10.0	8.0	8.7	6.8	8.2	6.9	8.4	4.8	6.8	4.1	7.0
11	9.3	9.9	8.0	8.6	6.8	7.0	6.9	7.3	4.8	5.8	4.1	5.5
40	9.5	9.8	8.6	9.0	7.6	8.6	7.8	8.6	6.3	7.6	5.5	7.8
42	10.0	10.0	8.4	9.3	7.4	8.7	7.6	8.7	5.5	7.8	4.5	7.6
52	10.0	10.0	8.4	9.3	7.8	8.6	7.5	8.7	6.3	7.5	5.8	6.8
53	10.0	9.7	6.5	8.6	7.6	7.1	7.3	7.5	6.1	5.5	5.4	5.3
Paint - Solvent, Yellow (3 min or more)												
3	9.5	10.0	8.1	9.3	7.9	9.0	8.1	9.3	7.0	6.5	6.7	8.6
13	9.7	9.8	6.3	8.6	7.7	8.1	7.7	6.4	6.3	7.0	5.3	7.3
Paint - Water, White (60 sec)												
14	6.8	9.8	6.5	9.8	5.2	7.2	0.0	7.6	0.0	6.5	0.0	6.5
16	9.4	9.8	7.7	8.7	7.2	7.6	6.8	8.3	6.0	6.3	5.3	6.9
51	7.6	9.3	6.5	8.0	5.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Water, White (90 sec)												
19	8.7	9.6	7.3	8.6	7.0	7.2	6.8	7.9	4.9	6.3	5.1	6.8
45	5.9	8.9	5.3	6.1	4.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Water, Yellow (60 sec)												
15	7.9	9.8	7.3	8.0	6.9	6.8	6.8	8.8	5.1	6.3	5.6	8.1
17	9.5	10.0	8.6	9.3	8.0	8.8	8.0	9.0	7.0	8.0	6.9	8.1
18	6.2	9.8	7.3	8.8	7.0	8.5	0.0	8.7	0.0	7.9	0.0	8.1
20	6.4	9.8	7.3	9.2	7.2	8.6	7.1	8.8	5.9	8.0	5.9	8.0
25	7.5	9.2	7.3	8.1	6.8	8.2	6.8	0.0	5.8	0.0	5.6	0.0
26	7.3	9.4	6.6	8.6	6.3	8.5	6.4	8.8	5.1	7.9	5.3	8.0
48	6.7	8.7	5.8	7.4	5.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0
49	6.8	9.4	6.3	8.4	5.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Water, Yellow (90 sec)												
44	6.8	9.6	5.8	8.6	5.7	8.1	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Polyester, White (90 sec)												
23	9.4	8.6	7.9	2.9	7.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Polyester, White (30 min)												
21	9.0	7.7	7.9	7.6	7.6	6.3	7.0	0.0	5.3	0.0	5.2	0.0
Paint - Polyester, Yellow (90 sec)												
24	8.9	4.5	7.7	1.1	7.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Polyester, Yellow (30 min)												
22	9.4	8.4	8.8	7.8	8.1	6.6	7.7	0.0	7.0	0.0	6.7	0.0
Thermoplastic - White, Alkyd												
47	10.0	10.0	10.0	10.0	9.9	10.0	8.7	9.7	8.6	9.0	6.6	8.9
60	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.3	9.0	8.0	7.1	8.2

TABLE A5. Durability Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Alabama) (RTF 88) (continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	AUG88		DEC88		APR89		AUG89		DEC89		APR91	
	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Thermoplastic - White, Hydrocarbon												
35	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	8.9	10.0	7.2	9.1
58	10.0	10.0	10.0	10.0	10.0	10.0	8.1	10.0	9.0	9.5	7.5	8.5
Methacrylate - White												
31	10.0	10.0	10.0	10.0	10.0	10.0	9.2	10.0	10.0	10.0	8.3	9.4
32	9.8	10.0	10.0	10.0	10.0	10.0	9.2	10.0	9.4	10.0	7.3	9.3
Thermoplastic - Yellow, Alkyd												
46	10.0	10.0	10.0	10.0	9.9	10.0	8.7	9.5	8.1	9.3	7.1	8.6
59	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.4	8.4	9.3	8.0	8.7
Thermoplastic - Yellow, Hydrocarbon												
34	10.0	10.0	10.0	10.0	10.0	10.0	9.3	10.0	9.5	10.0	7.7	9.8
57	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.8	9.9	9.3	8.0	9.0
Preformed Thermoplastic, White												
1	10.0	9.7	10.0	10.0	10.0	10.0	9.2	9.6	9.7	9.0	7.5	8.1
Permanent Tape, White												
37	9.0	9.7	9.3	9.8	9.3	9.7	8.7	9.7	7.8	8.5	6.9	8.6
55	10.0	10.0	10.0	10.0	9.7	9.7	8.0	9.7	7.8	9.0	6.9	9.1
62	10.0	10.0	10.0	9.8	9.7	10.0	9.0	9.3	8.5	9.0	7.7	8.8
Temporary Tape, White												
30	9.0	9.3	7.9	8.8	7.7	7.9	6.8	7.8	6.0	6.4	5.0	6.3
Permanent Tape, Yellow												
38	9.3	9.7	9.3	9.8	9.3	9.8	8.8	9.7	7.8	8.8	7.2	8.3
56	10.0	10.0	10.0	9.9	9.7	10.0	9.5	9.7	9.0	9.5	8.0	9.3
Temporary Tape, Yellow												
27	9.0	9.4	7.8	8.8	7.7	8.1	7.0	8.2	6.0	6.4	5.3	6.3

TABLE A8. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 88)

SUBJECTIVE RATINGS												
SAMPLE	SEPT88		JAN89		MAY89		SEPT89		JAN90		MAY90	
NUMBER	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Solvent, White (60 sec)												
4		8.0	7.4	7.7	7.5	8.7	8.3	8.2	8.3	8.7	8.2	8.3
8		8.3	7.7	8.0	7.5	8.9	8.3	8.5	8.0	7.2	8.0	8.7
8		8.3	7.8	8.3	7.9	7.5	8.3	8.7	8.7	5.8	8.0	8.0
10		8.1	7.9	7.3	7.3	8.5	5.8	5.8	5.3	5.5	5.0	5.3
41		7.7	7.3	8.5	7.8	8.2	8.7	5.8	7.2	8.0	8.7	5.9
43		7.8	8.1	8.2	8.1	8.0	7.2	5.8	7.5	5.8	8.8	5.8
50		8.9	8.4	8.3	8.3	8.8	8.7	8.3	8.0	5.7	8.2	8.2
Paint - Solvent, White (3 min or more)												
2		8.8	8.8	7.8	8.1	8.8	8.8	8.5	7.0	7.5	7.2	8.5
12		7.5	8.9	7.3	8.8	8.8	5.3	8.7	8.2	7.3	8.7	7.3
Paint - Solvent, Yellow (60 sec)												
5		8.9	7.5	8.0	7.2	7.4	8.2	7.2	8.2	7.0	7.0	7.0
7		8.7	7.3	7.8	8.8	8.8	5.2	8.2	5.5	7.2	8.0	7.0
9		8.0	7.9	8.0	7.8	8.9	8.2	7.0	8.5	8.5	8.5	7.0
11		8.7	7.3	7.4	8.8	8.8	5.2	8.0	5.5	5.5	5.8	8.0
40		8.3	8.8	8.8	8.3	7.8	7.1	7.3	8.5	7.2	7.3	7.8
42		9.1	8.5	7.8	8.3	7.3	7.0	8.8	8.8	7.3	7.5	7.0
52		9.5	8.7	8.4	8.8	7.3	8.5	8.3	8.3	8.7	8.5	8.7
53		8.8	8.3	7.4	8.3	8.1	8.5	5.7	8.2	5.3	8.3	5.2
Paint - Solvent, Yellow (3 min or more)												
3		8.9	8.5	7.8	7.8	8.7	8.0	7.2	5.8	7.7	8.3	7.5
13		9.0	8.1	8.1	7.8	7.2	5.7	7.0	5.8	7.7	8.8	7.3
Paint - Water, White (60 sec)												
14		9.3	9.0	8.9	8.7	8.3	7.2	7.9	7.5	8.8	7.7	8.5
16		8.8	8.9	8.5	8.5	7.8	8.8	7.7	7.5	7.8	7.7	7.7
51		8.9	7.8	8.7	8.0	7.2	8.4	8.7	8.8	8.8	7.7	7.0
Paint - Water, White (90 sec)												
19		8.9	8.9	7.8	8.4	7.0	8.5	7.2	7.7	7.3	7.3	7.5
45		8.7	7.4	8.3	7.4	7.3	8.7	7.3	8.5	7.8	7.0	7.8
Paint - Water, Yellow (60 sec)												
15		8.8	8.9	8.3	8.0	7.8	8.8	7.7	7.0	8.0	7.5	8.3
17		8.8	8.2	8.8	8.3	7.8	7.0	7.8	7.2	8.0	7.5	8.3
18		8.8	8.8	7.8	8.3	7.2	8.8	7.3	8.5	7.5	8.8	8.2
20		8.8	9.1	8.3	8.5	7.4	7.0	7.2	7.3	7.7	7.5	7.3
25		8.5	8.3	7.5	7.3	8.7	5.8	8.7	5.8	7.2	8.7	7.3
26		8.7	9.0	7.8	7.8	7.3	8.8	7.0	8.5	7.3	7.0	7.7
48		9.1	8.2	8.8	8.3	7.5	7.3	7.5	8.8	7.7	7.5	7.7
49		9.5	8.1	9.0	8.5	8.3	7.3	8.2	7.0	8.3	8.0	8.7
Paint - Water, Yellow (90 sec)												
44		8.8	8.3	7.8	7.8	7.9	7.1	7.0	8.7	7.3	7.2	8.5
Paint - Polyester, White (90 sec)												
23		8.4	8.1	8.8	8.3	7.1	5.8	8.7	8.2	7.7	8.2	7.0
Paint - Polyester, White (30 min)												
21		9.3	8.2	9.0	8.2	7.8	8.4	7.2	8.8	7.7	8.8	7.2
Paint - Polyester, Yellow (90 sec)												
24		8.8	8.0	8.8	8.3	7.4	8.8	7.3	8.8	7.7	8.7	8.0

TABLE AB. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 89) (continued)

SUBJECTIVE RATINGS												
SAMPLE NUMBER	SEPT89		JAN90		MAY90		SEPT90		JAN91		MAY91	
	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Polyester, Yellow (30 min)												
22	8.3	8.4	8.9	8.3	8.2	8.7	7.3	8.0	7.8	8.8	7.8	8.2
Thermoplastic - White, Alkyd												
47	8.3	8.8	9.3	8.9	8.8	7.8	8.2	8.2	8.7	7.8	8.7	8.0
60	8.3	8.5	9.3	8.9	8.8	7.4	8.5	8.5	8.5	8.5	8.5	8.0
Thermoplastic - White, Hydrocarbon												
35	9.3	8.9	9.3	9.0	8.5	7.9	8.2	8.2	8.7	7.8	8.7	8.0
58	8.9	7.8	8.9	8.2	8.3	7.3	8.2	8.0	8.2	8.3	8.2	7.0
Methacrylate - White												
31*	9.6	--	9.2	--	8.5	--	7.8	--	8.0	--	8.0	--
32	9.6	8.3	8.7	8.4	8.2	8.7	7.5	8.7	7.8	8.8	7.8	8.8
Thermoplastic - Yellow, Alkyd												
46	9.0	8.6	8.8	8.5	8.2	7.3	8.7	7.8	8.7	8.0	8.8	8.3
59	9.7	9.0	9.3	9.3	9.2	8.2	8.8	9.0	9.3	9.0	9.2	8.7
Thermoplastic - Yellow, Hydrocarbon												
34	9.6	8.8	9.3	8.8	9.0	7.8	8.2	8.8	9.2	8.7	9.3	8.0
57	8.4	8.8	8.9	8.4	8.4	7.2	8.4	8.0	9.0	8.3	8.8	8.3
Preformed Thermoplastic, White												
1	9.0	7.6	8.3	7.9	8.3	7.3	8.2	7.8	8.3	7.8	8.5	7.8
Permanent Tape, White												
37	8.9	7.8	8.5	7.3	8.9	7.2	8.0	8.7	7.8	8.7	8.5	8.5
55	9.6	9.5	9.1	8.8	9.2	8.3	8.5	7.5	8.3	7.5	8.7	7.0
62	9.6	9.8	9.7	9.8	9.3	8.9	8.8	8.7	8.7	8.5	9.0	8.7
Temporary Tape, White												
30	8.7	8.1	8.7	8.7	8.8	7.7	7.8	7.7	8.5	8.2	8.8	7.3
Permanent Tape, Yellow												
38	9.5	8.8	9.0	8.4	9.3	8.2	8.5	7.2	8.5	7.7	8.7	7.0
56	9.7	9.4	9.3	8.6	9.2	8.9	8.7	7.8	8.7	7.8	8.7	7.5
Temporary Tape, Yellow												
27	8.3	8.8	8.3	8.8	8.0	7.8	7.7	7.0	8.3	8.0	7.5	7.3

* White thermoplastic #31 was not available for the PCC pavement.

TABLE A7. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Alabama) (RTF 88)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	AUG89		DEC89		APR90		AUG90		DEC90		APR91	
	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Solvent, White (60 sec)												
4	9.3	10.0	8.0	8.5	7.2	8.0	8.5	8.0	4.5	8.5	8.5	8.5
6	9.3	10.0	7.8	8.5	6.8	7.8	0.0	8.0	0.0	6.5	8.1	8.1
8	9.5	10.0	7.8	8.5	6.8	7.8	0.0	8.0	0.0	6.0	5.8	5.8
10	8.5	10.0	7.8	8.5	6.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0
41	9.5	9.7	8.3	8.5	7.5	7.7	8.8	8.0	5.3	6.3	5.8	5.8
43	9.3	8.7	8.3	8.3	7.3	7.5	6.8	7.5	4.5	5.8	5.5	5.5
50	9.8	9.7	8.3	8.5	7.5	7.2	6.8	0.0	5.0	0.0	0.0	0.0
Paint - Solvent, White (3 min or more)												
2	9.7	10.0	8.3	8.5	7.3	7.8	7.2	8.0	5.3	6.0	6.0	6.0
12	9.3	9.5	8.0	8.5	7.0	7.8	7.0	8.0	5.3	6.3	6.1	6.1
Paint - Solvent, Yellow (60 sec)												
5	10.0	10.0	8.7	8.7	7.8	8.3	7.7	8.3	6.0	7.3	7.3	7.3
7	10.0	10.0	8.5	8.7	7.8	8.2	7.7	8.3	6.3	7.0	6.5	6.5
9	9.5	10.0	8.7	8.7	7.8	8.0	7.0	8.3	5.5	7.0	6.8	6.8
11	9.7	10.0	8.5	8.7	7.7	7.7	7.0	7.5	5.5	6.5	5.3	5.3
40	10.0	10.0	9.0	8.7	8.3	8.5	7.8	8.7	6.5	7.8	7.5	7.5
42	10.0	9.8	9.0	9.2	8.3	8.5	7.7	8.5	6.3	7.5	7.3	7.3
52	10.0	9.8	8.8	9.0	7.8	8.3	7.3	8.3	6.0	7.0	6.5	6.5
53	10.0	9.7	8.5	8.3	7.8	7.3	7.3	7.8	6.0	5.8	5.0	5.0
Paint - Solvent, Yellow (3 min or more)												
3	9.3	9.8	8.2	8.8	7.8	8.7	8.0	8.5	7.1	8.0	7.5	7.5
13	9.5	10.0	8.2	8.7	7.5	8.5	7.7	8.2	6.3	7.3	7.1	7.1
Paint - Water, White (60 sec)												
14	7.9	9.5	6.8	8.7	6.0	7.3	0.0	7.7	0.0	6.5	6.1	6.1
16	9.5	9.5	7.8	8.8	7.3	7.3	7.0	7.8	5.5	6.3	6.5	6.5
51	8.2	9.7	6.8	8.5	6.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Water, White (90 sec)												
19	9.3	9.5	7.8	8.7	7.3	7.2	6.8	7.8	5.5	6.3	6.3	6.3
45	6.3	8.7	5.7	8.2	5.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Water, Yellow (60 sec)												
15	8.6	10.0	7.8	8.8	7.3	8.5	7.2	8.3	5.8	7.3	7.5	7.5
17	9.7	9.8	8.7	8.7	8.2	8.5	8.0	8.5	7.0	7.3	7.5	7.5
18	8.5	10.0	7.3	8.8	7.3	8.5	0.0	8.3	0.0	7.8	7.5	7.5
20	8.8	9.7	8.0	8.8	7.8	8.5	7.2	8.5	6.1	7.8	7.8	7.8
25	8.5	9.8	7.8	8.7	7.5	7.8	8.7	0.0	5.8	0.0	0.0	0.0
26	8.3	10.0	7.7	8.8	7.0	8.5	6.8	8.3	5.8	7.8	7.5	7.5
48	7.5	9.3	6.2	8.3	5.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0
49	7.5	9.8	6.3	8.3	6.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Water, Yellow (90 sec)												
44	7.3	9.8	6.2	8.3	5.8	8.3	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Polyester, White (90 sec)												
23	8.8	7.7	7.8	5.7	7.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Polyester, White (30 min)												
21	9.3	9.8	7.8	7.8	7.5	6.3	7.0	0.0	5.3	0.0	0.0	0.0
Paint - Polyester, Yellow (90 sec)												
24	8.2	6.8	7.4	4.4	7.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
Paint - Polyester, Yellow (30 min)												
22	9.9	10.0	6.8	8.8	8.8	7.3	7.5	0.0	7.0	0.0	0.0	0.0
Thermoplastic - White, Alkyd												
47	9.8	10.0	10.0	10.0	9.7	9.7	8.8	9.2	9.1	9.0	8.0	8.0
60	8.7	10.0	9.8	9.7	9.5	9.2	8.8	8.8	9.3	8.5	7.5	7.5

TABLE A7. Appearance Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Alabama) (RTF 88)(continued)

SAMPLE NUMBER	SUBJECTIVE RATINGS											
	AUG89		DEC89		APR90		AUG90		DEC90		APR91	
	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Thermoplastic - White, Hydrocarbon												
35	9.8	10.0	10.0	10.0	9.7	9.7	9.2	9.7	9.3	9.5	8.1	8.1
58	9.3	10.0	9.7	10.0	9.5	9.3	8.7	9.5	9.0	9.5	8.3	8.3
Methacrylate - White												
31	9.8	10.0	9.8	10.0	9.5	9.1	8.8	9.0	9.3	9.0	7.9	7.9
32	9.7	10.0	9.5	10.0	9.0	9.0	8.0	9.0	8.5	9.0	8.0	8.0
Thermoplastic - Yellow, Alkyd												
46	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.3	9.3	9.6	8.6	8.6
59	10.0	10.0	10.0	10.0	10.0	10.0	9.3	9.3	10.0	9.5	8.5	8.5
Thermoplastic - Yellow, Hydrocarbon												
34	10.0	10.0	10.0	10.0	10.0	10.0	9.5	10.0	10.0	10.0	9.3	9.3
57	9.8	10.0	10.0	10.0	10.0	10.0	8.8	9.8	9.8	9.8	8.6	8.6
Preformed Thermoplastic, White												
1	9.3	9.5	9.3	9.3	9.0	8.7	8.5	9.0	9.0	9.0	8.0	8.0
Permanent Tape, White												
37	9.0	9.3	9.0	8.8	8.7	8.7	7.7	7.8	6.5	7.0	7.3	7.3
55	10.0	10.0	10.0	10.0	9.7	9.3	8.5	8.6	7.5	8.0	8.1	8.1
62	10.0	10.0	10.0	10.0	9.7	9.3	8.8	8.7	8.0	7.5	7.5	7.5
Temporary Tape, White												
30	9.0	9.0	9.0	8.5	8.2	7.7	7.5	7.7	6.3	6.5	5.6	5.6
Permanent Tape, Yellow												
36	9.3	9.3	9.2	8.8	9.0	9.0	8.2	8.3	6.8	7.5	7.5	7.5
56	10.0	10.0	10.0	10.0	9.7	9.7	8.5	9.2	8.3	9.0	8.6	8.6
Temporary Tape, Yellow												
27	9.0	9.0	9.0	8.5	8.2	8.0	7.8	7.8	6.5	6.8	6.0	6.0

TABLE A8. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 89)

COLORMETER MEASUREMENT												
SAMPLE	SEPT89		JAN90		MAY90		SEPT90		JAN91		MAY91	
NUMBER	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Solvent, White (60 sec)												
4*	35.2	40.8	42.0	48.5	33.7	34.0	25.1	30.1	22.8	30.3	18.3	---
	36.4	36.6	36.2	40.7	33.7	33.1	29.3	29.3	30.8	31.0	28.6	26.3
6	35.1	36.3	42.1	46.3	30.6	31.6	26.7	---	36.8	32.3	29.8	28.3
	36.6	38.1	37.1	36.7	31.2	29.2	22.7	---	33.8	32.6	28.5	24.8
8	36.4	42.2	46.1	43.4	31.6	34.3	27.2	28.2	25.5	---	14.8	---
	35.3	41.9	42.0	41.9	35.6	32.9	28.6	29.1	32.3	31.6	29.5	27.0
10	32.4	34.3	33.0	38.5	26.0	26.9	21.3	---	19.5	---	15.3	---
	35.8	39.5	37.2	38.5	28.4	28.6	24.9	---	23.0	29.3	22.5	24.8
41	33.2	41.1	35.8	46.5	22.2	34.7	18.0	24.2	14.0	33.5	15.3	28.0
	30.6	39.0	38.1	38.4	27.0	30.6	23.7	20.0	23.5	34.3	18.5	28.0
43	35.7	42.2	31.8	47.0	23.7	35.7	15.7	22.4	12.3	34.5	11.3	27.5
	33.8	40.3	36.4	38.6	29.3	32.7	23.1	17.1	17.3	31.0	20.0	27.5
50	37.0	39.8	40.2	42.1	27.9	31.4	21.7	---	23.5	30.5	15.0	---
	40.0	47.1	42.7	42.8	35.7	31.6	27.8	---	28.3	33.5	25.3	23.3
Paint - Solvent, White (3 min or more)												
2	35.1	43.5	44.1	47.8	32.3	35.0	26.1	31.5	42.6	43.8	31.3	31.0
	38.3	46.1	40.1	43.5	32.0	33.1	25.5	31.4	32.5	36.8	29.5	26.8
12	27.8	31.8	45.1	49.9	34.0	39.2	33.3	36.6	44.0	42.6	28.8	33.5
	30.0	35.9	35.7	38.9	31.2	28.5	29.3	28.1	38.5	38.8	31.0	28.3
Paint - Solvent, Yellow (60 sec)												
5	26.7	24.0	34.2	31.4	26.4	23.9	20.8	21.7	26.5	26.5	18.8	24.8
	25.6	24.5	29.1	24.4	24.5	21.2	21.3	20.3	22.3	22.3	21.5	17.3
7	21.9	20.9	26.3	25.4	19.8	21.2	17.2	23.9	24.3	24.3	16.5	23.5
	22.1	21.8	23.2	21.4	19.3	17.4	17.8	18.6	19.8	19.8	16.8	14.5
9	22.3	22.3	28.7	31.6	21.9	26.1	18.1	23.8	19.8	24.0	15.3	24.8
	21.6	23.3	23.8	23.9	19.8	20.1	19.5	19.9	19.8	21.0	18.5	18.3
11	21.0	19.1	25.1	27.1	17.4	21.5	14.3	27.8	19.3	25.8	12.0	25.3
	19.5	21.6	23.8	23.0	18.8	17.6	16.0	24.1	18.8	19.5	16.3	15.5
40	22.9	23.9	25.8	29.5	16.1	23.1	16.8	31.7	16.3	26.0	13.5	25.0
	21.8	23.1	24.8	25.0	19.0	20.1	20.4	29.6	19.5	21.5	17.5	16.8
42	22.5	24.5	20.6	31.2	15.8	24.6	14.0	36.2	12.3	26.3	12.0	23.5
	22.1	23.1	24.5	25.6	22.4	20.3	16.4	35.4	17.3	24.3	14.8	17.8
52	25.2	25.6	40.4	30.1	17.4	22.7	17.3	23.8	15.8	25.3	13.8	24.5
	25.4	26.3	26.9	27.3	20.6	19.9	17.8	20.9	19.0	21.8	17.3	18.3
53	26.8	27.6	27.6	30.5	19.6	24.4	16.5	56.2	15.8	26.3	15.5	25.0
	28.3	28.7	26.1	26.2	22.0	20.8	18.4	51.2	18.0	20.5	16.5	16.3
Paint - Solvent, Yellow (3 min or more)												
3	22.9	24.8	27.9	26.4	21.1	22.3	18.1	21.6	24.3	27.3	18.5	22.3
	23.7	25.2	25.4	25.9	19.9	21.5	18.4	20.6	19.8	22.8	17.3	16.0
13	20.3	22.1	28.0	30.2	21.0	24.9	19.8	24.7	27.0	32.8	21.0	27.0
	21.3	23.7	24.7	24.7	19.7	19.2	19.2	18.4	23.5	24.3	21.5	20.0

TABLE A8. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 89) (continued)

COLORMETER MEASUREMENT												
SAMPLE NUMBER	SEPT89		JAN90		MAY90		SEPT90		JAN91		MAY91	
	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Paint - Water, White (80 sec)												
14	47.1	49.5	63.7	46.9	45.7	35.8	43.6	37.6	55.5	39.5	46.3	27.3
	51.6	52.5	56.8	59.1	46.8	43.9	31.4	44.3	43.0	41.7	42.0	39.0
16	44.5	46.8	57.8	54.1	40.4	33.3	38.7	38.2	44.3	39.3	39.5	29.8
	43.7	48.3	48.9	51.5	41.9	40.6	26.6	37.4	36.8	42.3	31.3	33.3
51	38.0	37.1	45.5	35.7	22.4	30.1	24.9	23.0	31.8	16.3	24.6	13.8
	45.3	46.2	44.8	46.5	21.3	35.8	21.0	19.1	25.5	36.3	25.0	27.3
Paint - Water, White (90 sec)												
19	37.0	55.5	47.8	52.1	37.2	36.2	32.2	37.1	39.5	41.8	28.3	33.8
	40.2	51.5	46.3	52.1	36.2	39.5	33.0	35.4	35.3	41.0	31.0	33.3
45	37.2	38.8	45.3	52.0	36.6	34.7	31.0	34.8	41.0	42.3	24.8	33.8
	36.5	40.6	40.7	43.5	31.9	39.2	30.8	33.0	34.5	41.5	29.5	27.5
Paint - Water, Yellow (80 sec)												
15	30.2	26.0	37.7	35.7	28.6	24.7	25.9	27.8	32.3	26.5	25.3	25.5
	30.8	29.9	35.0	34.7	29.1	26.5	25.6	26.4	26.5	29.0	27.5	23.0
17	26.2	30.1	35.2	35.0	27.5	27.7	24.3	27.4	30.8	28.3	26.0	26.3
	28.3	29.7	33.0	32.0	27.7	26.1	23.4	24.9	27.6	28.0	25.0	23.0
18	23.9	27.5	34.6	33.2	27.2	27.2	25.4	26.3	31.0	28.3	20.8	25.8
	29.0	29.0	32.5	31.9	27.0	24.8	24.3	24.0	28.5	28.5	25.0	22.0
20	21.3	29.0	28.2	34.3	22.5	26.5	19.3	26.3	24.0	31.0	19.5	24.3
	23.0	31.7	25.3	31.1	21.0	27.5	18.8	24.5	21.6	29.0	18.5	23.5
25	21.5	22.9	27.6	29.1	20.7	21.8	19.9	23.1	23.0	25.3	20.5	24.5
	21.9	23.5	23.8	25.6	21.0	19.8	18.7	17.1	19.8	23.0	18.5	16.0
26	25.2	32.9	29.4	33.8	22.6	27.7	19.9	25.7	25.6	29.3	20.8	26.0
	25.9	32.5	25.8	33.0	22.3	25.4	20.1	26.9	22.3	30.8	21.0	23.8
48	31.4	27.6	34.5	29.1	25.4	25.3	22.7	----	24.5	----	24.3	26.8
	31.9	33.6	34.1	35.3	24.7	27.0	19.9	----	26.0	30.3	22.3	23.0
49	32.0	30.5	33.5	33.2	23.7	27.6	23.1	----	26.5	14.8	24.8	26.0
	33.2	34.7	35.9	36.5	27.2	28.2	26.0	----	24.8	30.3	23.5	26.0
Paint - Water, Yellow (90 sec)												
44	21.1	19.7	26.2	29.0	23.1	20.5	19.3	34.8	24.0	26.8	16.3	23.3
	21.5	21.3	24.3	23.8	20.5	18.4	18.4	42.7	21.3	22.3	18.5	16.8
Paint - Polyester, White (90 sec)												
23	38.8	23.9	48.1	----	34.0	----	26.6	----	36.3	----	30.0	----
	39.4	42.4	49.4	37.1	34.4	33.6	27.9	----	34.0	----	30.3	----
Paint - Polyester, White (30 min)												
21	42.7	37.4	50.1	47.2	35.2	31.6	31.9	----	36.5	37.5	29.5	25.8
	40.5	39.7	50.7	45.1	40.3	34.6	30.0	----	35.5	35.5	32.3	26.8
Paint - Polyester, Yellow (90 sec)												
24	21.9	26.1	28.7	----	19.5	----	17.6	----	24.5	----	19.0	----
	22.8	21.3	27.3	24.9	22.7	18.7	18.4	----	20.0	21.0	19.0	16.5
Paint - Polyester, Yellow (30 min)												
22	22.3	21.6	24.5	27.1	19.8	18.8	17.4	16.9	39.3	26.8	17.3	19.8
	24.6	24.6	28.8	26.3	24.1	20.1	18.2	19.8	34.0	22.8	20.0	17.8

TABLE A8. Colormeter Data for Beaded Paint, Beaded Thermoplastic, and Nonremovable Tape Transverse Lines
(Kentucky) (RTF 89) (continued)

COLORMETER MEASUREMENT												
SAMPLE	SEPT89		JAN90		MAY90		SEPT90		JAN91		MAY91	
NUMBER	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC	ASPHALT	PCC
Thermoplastic - White, Alkyd												
47	52.4	60.8	71.2	71.8	58.2	51.3	50.6	26.8	56.5	66.0	49.3	54.0
	54.2	51.9	69.8	61.8	55.4	51.2	51.0	25.3	55.8	58.0	48.8	48.0
60	56.0	57.5	59.2	60.0	48.9	47.3	45.8	63.0	52.3	59.0	46.5	49.5
	55.7	52.0	59.5	57.4	49.8	50.5	47.8	58.5	53.0	55.5	48.3	41.3
Thermoplastic - White, Hydrocarbon												
35	61.8	63.9	67.0	68.3	54.9	54.0	54.1	20.6	51.3	66.0	52.5	56.0
	57.5	61.5	66.1	62.4	59.1	53.9	55.3	22.2	57.3	60.0	54.8	51.3
58	52.1	57.6	66.9	62.7	49.0	48.5	48.6	34.1	59.0	51.3	47.0	---
	50.2	47.9	61.6	56.0	48.5	43.0	44.0	35.8	53.0	54.5	45.0	42.3
Methacrylate - White												
31**	64.5	---	68.8	---	51.9	---	48.2	---	56.0	---	43.3	---
	61.2	---	69.7	---	60.2	---	50.8	---	56.5	---	52.3	---
32	57.1	55.1	63.4	56.8	47.7	40.6	44.2	35.1	54.5	52.3	44.8	38.5
	58.9	38.0	61.2	49.3	53.5	43.7	44.2	33.6	51.0	47.0	46.3	36.5
Thermoplastic - Yellow, Alkyd												
46	32.5	38.8	54.2	44.3	35.9	32.8	31.6	53.6	36.8	42.0	32.5	34.0
	31.0	28.8	41.5	39.3	35.8	32.4	32.0	50.9	34.3	35.8	33.3	31.3
59	34.3	37.5	39.1	41.3	31.5	32.5	34.0	49.1	33.5	40.5	33.8	32.8
	35.6	34.2	39.8	37.1	34.0	32.9	33.6	47.0	36.3	34.3	32.5	25.5
Thermoplastic - Yellow, Hydrocarbon												
34	34.6	37.6	41.3	41.4	33.0	34.2	32.1	55.7	36.0	39.5	33.5	36.3
	28.7	29.6	38.6	36.4	35.3	33.2	32.7	55.5	35.3	40.0	32.8	33.0
57	30.4	34.8	38.7	39.0	29.8	30.5	30.2	51.2	34.3	37.5	30.0	31.8
	28.9	33.7	35.0	33.8	29.2	28.7	26.2	41.5	31.5	35.3	28.8	29.5
Preformed Thermoplastic, White												
1	48.9	53.9	54.8	58.3	49.2	48.7	53.3	49.3	53.0	56.0	49.8	51.8
	41.5	46.2	46.5	50.0	47.2	43.6	47.6	42.7	48.3	52.0	47.0	45.0
Permanent Tape, White												
37	52.8	50.8	51.4	52.1	43.8	35.5	27.4	24.5	52.8	50.5	42.8	40.8
	45.6	54.3	53.5	53.9	47.1	42.9	21.1	21.9	29.8	46.3	35.0	39.5
65	65.7	74.4	72.8	70.7	60.5	51.0	40.5	27.1	64.0	59.3	56.8	51.8
	65.9	68.9	69.7	64.6	61.5	57.6	39.3	27.1	52.3	51.8	54.3	49.5
62	73.7	77.8	76.8	76.4	71.8	63.8	60.7	0.0	72.5	67.5	64.8	58.8
	70.9	76.4	75.8	75.6	71.2	67.8	57.0	0.0	64.8	58.0	59.5	56.8
Temporary Tape, White												
30	39.4	46.9	66.4	67.1	49.4	28.2	33.1	47.8	60.5	47.3	48.3	46.5
	39.2	44.7	51.7	55.4	43.2	44.7	34.7	44.1	51.3	55.0	46.8	46.5
Permanent Tape, Yellow												
36	26.1	27.4	32.9	30.8	23.4	18.1	40.2	35.5	28.0	27.5	23.3	22.3
	23.0	28.5	30.2	30.4	24.3	21.9	35.2	37.8	20.0	28.3	21.3	21.3
56	28.9	33.9	36.2	37.7	29.7	27.8	34.4	31.1	34.0	34.8	30.0	30.3
	29.8	33.4	34.4	35.4	28.1	28.7	32.3	31.7	31.0	32.0	26.8	27.3
Temporary Tape, Yellow												
27	24.2	27.2	38.0	38.4	29.2	24.3	34.8	22.7	35.0	35.8	29.8	30.0
	22.6	25.6	36.1	32.7	28.3	25.4	32.1	21.7	24.3	32.0	27.0	26.0

* Top number is wheel track measurement and bottom number is centerline measurements.

** White Thermoplastic #31 was not available for the PCC pavement.

APPENDIX B

LABORATORY TESTS FOR THERMOPLASTIC MATERIALS

8/16/91

TEST RESULTS FOR REGIONAL TEST FACILITY
FOR CALENDAR YEAR: 1990
*** THERMOPLASTIC STRIPING MATERIAL ***

PAGE 1

RTF I.D. NO.	PRODUCT NAME	TYPE	TYPE CODE	COLOR	SFT PT. DEG F	SPEC GRAV	BOND STR. LB/SQ.IN	FLOW FLOW	FLOW EXT. HEAT	LOW TEMP STRESS RESIST	BEAD CONT %	BEADS RET #40	BEADS RET #70
STR-90-062	LW-90-1-E	HYDROCARBON	LH	YELLOW	198	1.92	131	17	22	NO CRACKS	29	50	43
STR-90-072	SWARCOTHERM	ALKYD	LFA	WHITE	196	2.14	53	25	30	CRACKED	36	24	71
STR-90-073	SWARCOTHERM	ALKYD	LA	YELLOW	198	2.01	80	21	24	NO CRACKS	31	40	54

3 RECORDS PRINTED

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STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF THERMOPLASTIC STRIPING MATERIAL(250)
DISTRICT 22

08-16-91

PROJECT NUMBER..MATLAB	DATE SAMPLED..06-01-90
LAB NUMBER.....22-553252	DATE TESTED...04-22-91
IDENT.	QUANTITY..... 100 LBS
PURPOSE..SOURCE APPROVAL	SPEC CODE.....3
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS	
SOURCE...LINEAR DYNAMICS, INC.	BALL GROUND, GA
REMARKS..LW-90-1-E STR-90-062	

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	LW-90-1-E	
RTF I.D. NO.	STR-90-062	
TYPE	HYDROCARBON	
TYPE (CODE)	LH	
COLOR	YELLOW	
SOFTENING POINT (DEG. F)	198	
SPECIFIC GRAVITY	1.92	
BOND STRENGTH (LB./SQ. IN.)	131	
FLOWABILITY (% RESIDUE)	17	
FLOWABILITY (% RESIDUE) EXTENDED HEATING	22	
LOW TEMPERATURE STRESS RESISTANCE	NO CRACKS	
GLASS BEAD CONTENT, %	29	
GLASS BEADS, % RETAINED #40 SIEVE	50	
GLASS BEADS, % RETAINED #70 SIEVE	43	

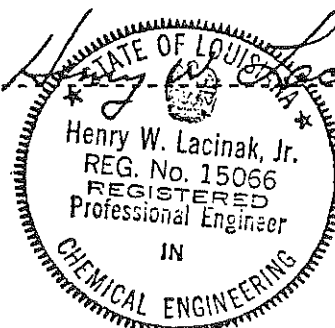
REMARKS..

COPIES TO:

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

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STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF THERMOPLASTIC STRIPING MATERIAL(250)
DISTRICT 22

08-16-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553249
IDENT.:.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...SWARCO
REMARKS..SWARCOTHERM STR-90-072

DATE SAMPLED...06-01-90
DATE TESTED...04-22-91
QUANTITY..... 100 LBS
SPEC CODE.....3
COLUMBIA, TN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	SWARCOTHERM	
RTF I.D. NO.	STR-90-072	
TYPE	ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
SOFTENING POINT (DEG. F)	196	
SPECIFIC GRAVITY	2.14	
BOND STRENGTH (LB./SQ. IN.)	53	
FLOWABILITY (% RESIDUE)	25	
FLOWABILITY (% RESIDUE) EXTENDED HEATING	30	
LOW TEMPERATURE STRESS RESISTANCE	CRACKED	
GLASS BEAD CONTENT, %	36	
GLASS BEADS, % RETAINED #40 SIEVE	24	
GLASS BEADS, % RETAINED #70 SIEVE	71	

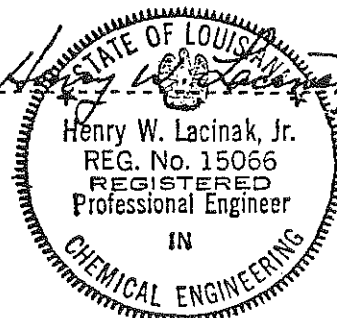
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MATERIALS ENGINEER BY

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF THERMOPLASTIC STRIPING MATERIAL(250)
DISTRICT 22

08-16-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553250
IDENT.
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...SWARCO
REMARKS..SWARCOTHERM STR-90-073

DATE SAMPLED..06-01-90
DATE TESTED...04-22-91
QUANTITY..... 100 LBS
SPEC CODE.....3
COLUMBIA, TN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	SWARCOTHERM	
RTF I.D. NO.	STR-90-073	
TYPE	ALKYD	
TYPE (CODE)	LA	
COLOR	YELLOW	
SOFTENING POINT (DEG. F)	198	
SPECIFIC GRAVITY	2.01	
BOND STRENGTH (LB./SQ. IN.)	80	
FLOWABILITY (% RESIDUE)	21	
FLOWABILITY (% RESIDUE) EXTENDED HEATING	24	
LOW TEMPERATURE STRESS RESISTANCE	NO CRACKS	
GLASS BEAD CONTENT, %	31	
GLASS BEADS, % RETAINED #40 SIEVE	40	
GLASS BEADS, % RETAINED #70 SIEVE	54	

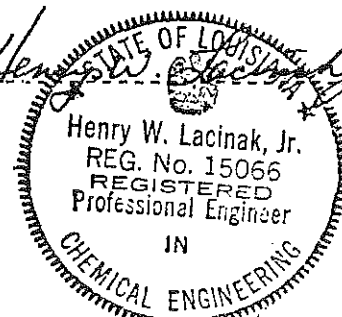
REMARKS..

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

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APPENDIX C

LABORATORY TESTS FOR SOLVENTBORNE TRAFFIC PAINT

TEST RESULTS FOR REGIONAL TEST FACILITY
FOR CALENDAR YEAR: 1990

***** SOLVENT BORNE TRAFFIC PAINT *****

RTF I.D. NO.	PRODUCT NAME	TYPE CODE	BATCH NO.	COLOR	PIGM %	TOT SOL %	DRY TIME MIN.	OPACITY CONTRAST RATIO	VISC KU
STR-90-006	CL-0002	LFA		WHITE	54.2	71.7	1.5	0.998	98
STR-90-007	CL-0003	LA		YELLOW	54.1	71.4	1.5	0.986	90
STR-90-008	CL-0009	LFA		YELLOW	56.2	72.4	1.0	0.997	90
STR-90-011	CL-0004	CP		WHITE	52.9	71.6	4.0	1.000	86
STR-90-012	CL-0005	CP		YELLOW	52.9	71.2	3.5	0.996	82
STR-90-033	HOTLINE	LFA	BP57-01	WHITE	57.7	74.2	2.0	0.999	119
STR-90-034	HOTLINE	LA	BP57-02	YELLOW	63.2	76.8	1.0	0.998	110
STR-90-035	HOTLINE	LFA	BP57-03	WHITE	58.8	73.8	2.0	0.998	100
STR-90-036	HOTLINE	LA	BP57-04	YELLOW	59.2	74.2	1.5	0.996	108
STR-90-037	HOTLINE	LFA	BP57-05	WHITE	64.8	78.1	1.0	0.999	95
STR-90-038	HOTLINE	LA	BP57-06	YELLOW	64.2	77.7	1.0	0.998	86
STR-90-064	LW-90-1-G	LFA		WHITE	58.5	72.7	7.0	1.000	76
STR-90-065	LW-90-1-H	LA		YELLOW	58.8	72.9	3.5	0.996	83
STR-90-066	12W-D229	LFA		WHITE	55.0	72.0	3.0	0.999	87
STR-90-067	12Y-D249	LA		YELLOW	55.0	71.8	2.0	0.998	86
STR-90-070		LFUPR		WHITE	IN	66.9	IN	IN	86
STR-90-071		LUPR		YELLOW	IN	69.9	IN	IN	88
STR-90-080	STATE SUB	LA		YELLOW	54.3	71.8	1.0	0.996	116
STR-90-081	STATE SUB	LFA		WHITE	54.3	70.8	1.5	0.999	110
STR-90-084	STATE SUB	LFA		WHITE	56.7	73.7	4.0	0.999	82
STR-90-085	STATE SUB	LA		YELLOW	56.4	73.8	2.0	0.996	90
STR-90-086	STATE SUB	LA		YELLOW	47.8	70.5	7.0	0.986	80
STR-90-087	STATE SUB	LFA		WHITE	47.9	70.4	5.0	0.996	71
STR-90-088	STATE SUB	LF CPA		WHITE	52.6	70.8	6.5	1.000	73
STR-90-089	STATE SUB	LC PA		YELLOW	54.2	72.1	6.5	0.998	76
STR-90-091	STATE SUB	LFA		WHITE	59.8	72.5	2.0	0.997	110
STR-90-092	STATE SUB	LFA		WHITE	*	*	*	*	*
STR-90-093	STATE SUB	LFA		WHITE	*	*	*	*	*
STR-90-094	STATE SUB	LFA		WHITE	68.3	80.7	14.0	0.995	82
STR-90-095	STATE SUB	LFA		WHITE	55.0	73.2	12.0	0.998	81
STR-90-098	STATE SUB	LFA		WHITE	58.7	74.7	1.5	0.990	104
STR-90-099	STATE SUB	LFA		YELLOW	55.9	71.8	1.0	1.000	124
STR-90-102	STATE SUB	LA		YELLOW	64.3	77.2	1.0	0.998	104
STR-90-103	STATE SUB	LFA		WHITE	65.0	77.1	2.0	0.983	99

34 RECORDS PRINTED

IN = INSUFFICIENT SAMPLE

* = SAMPLE GELLED BEFORE TESTING

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553259
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...ENNIS/CENTERLINE, INC.
REMARKS..STR-90-006

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
ENNIS, TX

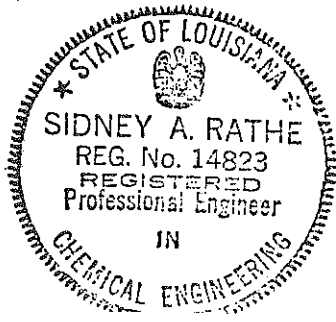
ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	CL-0002	
RTF I.D. NUMBER	STR-90-006	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	54.2	
TOTAL SOLIDS, %	71.7	
NO TRACK DRY TIME, MINUTES	1.5	
VISCOSITY, KU	98	
OPACITY (CONTRAST RATIO)	0.998	
INFRARED SPECTRA	ON FILE	

REMARKS..

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W. C. Rathe

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553260
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE..ENNIS/CENTERLINE, INC.
REMARKS..STR-90-007

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
ENNIS, TX

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	CL-0003	
RTF I.D. NUMBER	STR-90-007	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
COLOR	YELLOW	
PIGMENT, %	54.1	
TOTAL SOLIDS, %	71.4	
NO TRACK DRY TIME, MINUTES	1.5	
VISCOSITY, KU	90	
OPACITY (CONTRAST RATIO)	0.986	
INFRARED SPECTRA	ON FILE	

REMARKS..

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553261
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...ENNIS/CENTERLINE, INC.
REMARKS..STR-90-008

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
ENNIS, TX

ITEM NO..

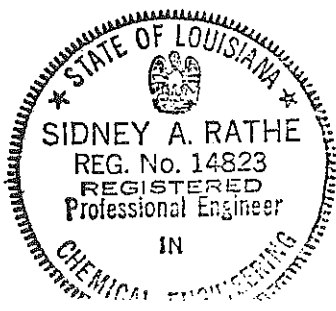
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	CL-0009	
RTF I.D. NUMBER	STR-90-008	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	YELLOW	
PIGMENT, %	56.2	
TOTAL SOLIDS, %	72.4	
NO TRACK DRY TIME, MINUTES	1.0	
VISCOSITY, KU	90	
OPACITY (CONTRAST RATIO)	0.997	
INFRARED SPECTRA	ON FILE	

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553264
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...ENNIS/CENTERLINE, INC.
REMARKS..STR-90-011

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
ENNIS, TX

ITEM NO..

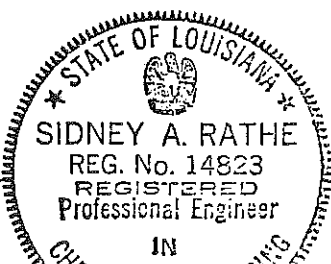
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	CL-0004	
RTF I.D. NUMBER	STR-90-011	
TYPE	CHLORINATED	
TYPE (CODE)	CP	
COLOR	WHITE	
PIGMENT, %	52.9	
TOTAL SOLIDS, %	71.6	
NO TRACK DRY TIME, MINUTES	4.0	
VISCOSITY, KU	86	
OPACITY (CONTRAST RATIO)	1.000	
INFRARED SPECTRA	ON FILE	

REMARKS..

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553265
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...ENNIS/CENTERLINE, INC.
REMARKS..STR-90-012

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
ENNIS, TX

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	CL-0005	
RTF I.D. NUMBER	STR-90-012	
TYPE	CHLORINATED	
TYPE (CODE)	CP	
COLOR	YELLOW	
PIGMENT, %	52.9	
TOTAL SOLIDS, %	71.2	
NO TRACK DRY TIME, MINUTES	3.5	
VISCOSITY, KU	82	
OPACITY (CONTRAST RATIO)	0.996	
INFRARED SPECTRA	ON FILE	

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553173
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-033

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-033	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
BATCH NUMBER	BP57-01	
COLOR	WHITE	
PIGMENT, %	57.7	
TOTAL SOLIDS, %	74.2	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	119	
OPACITY (CONTRAST RATIO)	0.999	
INFRARED SPECTRA	ON FILE	

REMARKS..

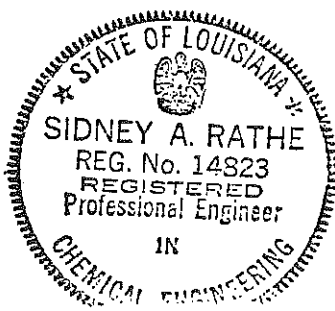
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EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553174
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-034

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-034	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
BATCH NUMBER	BP57-02	
COLOR	YELLOW	
PIGMENT, %	63.2	
TOTAL SOLIDS, %	76.8	
NO TRACK DRY TIME, MINUTES	1.0	
VISCOSITY, KU	110	
OPACITY (CONTRAST RATIO)	0.998	
INFRARED SPECTRA	ON FILE	

REMARKS..

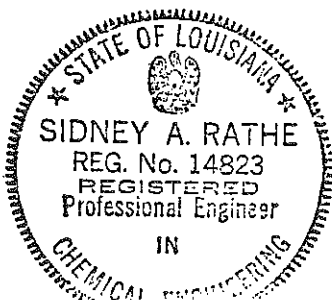
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MATERIAL TESTING SYSTEM
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REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553175
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-035

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

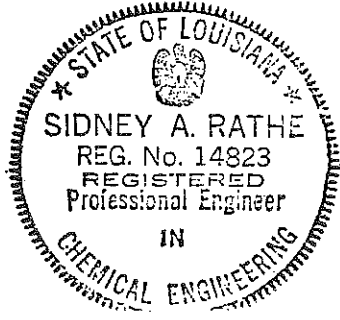
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-035	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
BATCH NUMBER	BP57-03	
COLOR	WHITE	
PIGMENT, %	58.8	
TOTAL SOLIDS, %	73.8	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	100	
OPACITY (CONTRAST RATIO)	0.998	
INFRARED SPECTRA	ON FILE	

REMARKS..

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REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553176
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-036
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

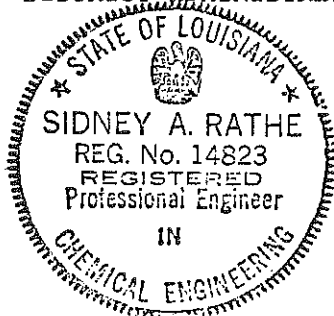
ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-036	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
BATCH NUMBER	BP57-04	
COLOR	YELLOW	
PIGMENT, %	59.2	
TOTAL SOLIDS, %	74.2	
NO TRACK DRY TIME, MINUTES	1.5	
VISCOSITY, KU	108	
OPACITY (CONTRAST RATIO)	0.996	
INFRARED SPECTRA	ON FILE	

REMARKS..

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553177
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-037

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

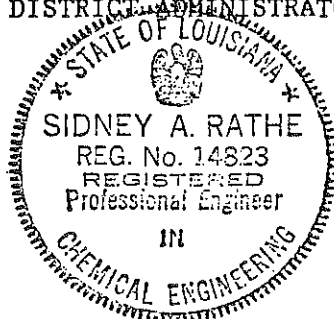
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-037	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
BATCH NUMBER	BP57-05	
COLOR	WHITE	
PIGMENT, %	64.8	
TOTAL SOLIDS, %	78.1	
NO TRACK DRY TIME, MINUTES	1.0	
VISCOSITY, KU	95	
OPACITY (CONTRAST RATIO)	0.999	
INFRARED SPECTRA	ON FILE	

REMARKS..

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MATERIALS ENGINEER BY



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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553178
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-038

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

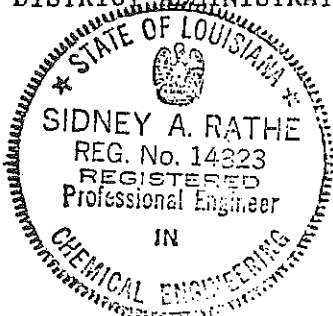
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-038	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
BATCH NUMBER	BP57-06	
COLOR	YELLOW	
PIGMENT, %	64.2	
TOTAL SOLIDS, %	77.7	
NO TRACK DRY TIME, MINUTES	1.0	
VISCOSITY, KU	86	
OPACITY (CONTRAST RATIO)	0.998	
INFRARED SPECTRA	ON FILE	

REMARKS..

COPIES TO:

SASHTO REGIONAL TEST FACILITY, JACKSON, MS
DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553256
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LINEAR DYNAMICS, INC.
REMARKS..STR-90-064

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
BALL GROUND, GA

ITEM NO..

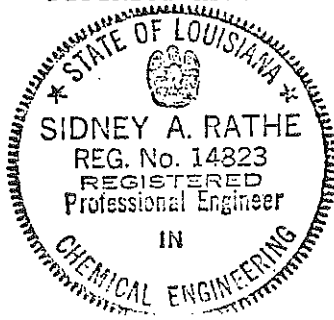
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	LW-90-1-G	
RTF I.D. NUMBER	STR-90-064	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	58.5	
TOTAL SOLIDS, %	72.7	
NO TRACK DRY TIME, MINUTES	7.0	
VISCOSITY, KU	76	
OPACITY (CONTRAST RATIO)	1.000	
INFRARED SPECTRA	ON FILE	

REMARKS..

COPIES TO:

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553257
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LINEAR DYNAMICS, INC.
REMARKS..STR-90-065

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
BALL GROUND, GA

ITEM NO..

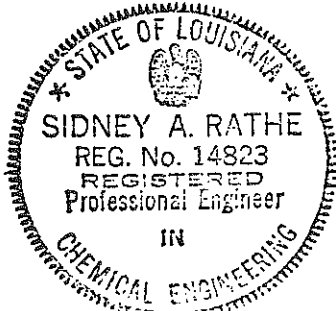
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	LW-90-1-H	
RTF I.D. NUMBER	STR-90-065	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
COLOR	YELLOW	
PIGMENT, %	58.8	
TOTAL SOLIDS, %	72.9	
NO TRACK DRY TIME, MINUTES	3.5	
VISCOSITY, KU	83	
OPACITY (CONTRAST RATIO)	0.996	
INFRARED SPECTRA	ON FILE	

REMARKS..

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553266
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...AEXCEL, INC.
REMARKS..STR-90-066
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
WILLOUGHBY, OH

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	12W-D229	
RTF I.D. NUMBER	STR-90-066	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	55.0	
TOTAL SOLIDS, %	72.0	
NO TRACK DRY TIME, MINUTES	3.0	
VISCOSITY, KU	87	
OPACITY (CONTRAST RATIO)	0.999	
INFRARED SPECTRA	ON FILE	

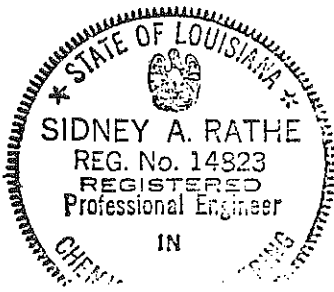
REMARKS..

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MATERIALS ENGINEER BY

W22



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553267
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...AEXCEL, INC.
REMARKS..STR-90-067
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
WILLOUGHBY, OH

ITEM NO..

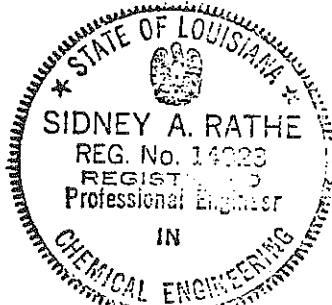
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	12Y-D249	
RTF I.D. NUMBER	STR-90-067	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
COLOR	YELLOW	
PIGMENT, %	55.0	
TOTAL SOLIDS, %	71.8	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	86	
OPACITY (CONTRAST RATIO)	0.998	
INFRARED SPECTRA	ON FILE	

REMARKS..

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553270
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...AEXCEL, INC.
REMARKS..STR-90-070
UNABLE TO COMPLETE TESTING
ITEM NO..

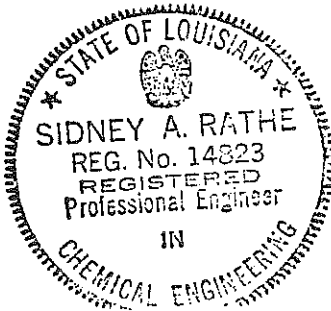
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
WILLOUGHBY, OH

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NUMBER	STR-90-070	
TYPE	POLYESTER	
TYPE (CODE)	LFUPR	
COLOR	WHITE	
PIGMENT, %	IN	
TOTAL SOLIDS, %	66.9	
NO TRACK DRY TIME, MINUTES	IN	
VISCOSITY, KU	86	
OPACITY (CONTRAST RATIO)	IN	

REMARKS..UNABLE TO COMPLETE TESTING

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553271
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...AEXCEL, INC.
REMARKS..STR-90-071
UNABLE TO COMPLETE TESTING
ITEM NO..

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
WILLOUGHBY, OH

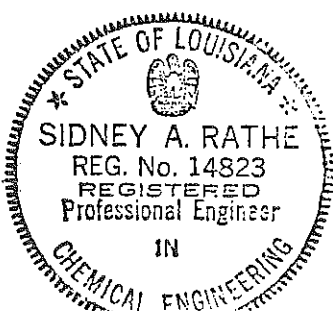
TEST PROPERTY	VALUE	REMARKS
RTF I.D. NUMBER	STR-90-071	
TYPE	POLYESTER	
TYPE (CODE)	LUPR	
COLOR	YELLOW	
PIGMENT, %	IN	
TOTAL SOLIDS, %	69.9	
NO TRACK DRY TIME, MINUTES	IN	
VISCOSITY, KU	88	
OPACITY (CONTRAST RATIO)	IN	

REMARKS..UNABLE TO COMPLETE TESTING

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553272
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LOUISIANA DOTD
REMARKS..STR-90-080

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
BATON ROUGE, LA

ITEM NO..

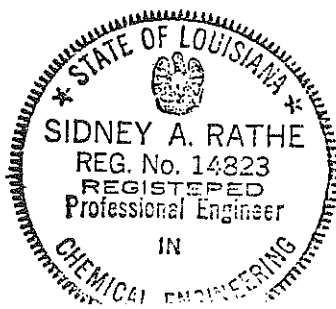
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-080	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
COLOR	YELLOW	
PIGMENT, %	54.3	
TOTAL SOLIDS, %	71.8	
NO TRACK DRY TIME, MINUTES	1.0	
VISCOSITY, KU	116	
OPACITY (CONTRAST RATIO)	0.996	
INFRARED SPECTRA	ON FILE	

REMARKS..

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553273
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LOUISIANA DOTD
REMARKS..STR-90-081
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
BATON ROUGE, LA

ITEM NO..

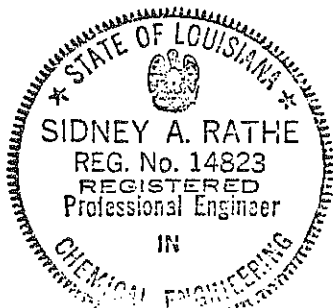
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-081	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	54.3	
TOTAL SOLIDS, %	70.8	
NO TRACK DRY TIME, MINUTES	1.5	
VISCOSITY, KU	110	
OPACITY (CONTRAST RATIO)	0.999	
INFRARED SPECTRA	ON FILE	

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553276
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...SOUTH CAROLINA DOHAPT COLUMBIA, SC
REMARKS..STR-90-084

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

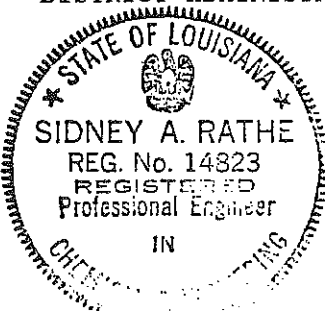
ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-084	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	56.7	
TOTAL SOLIDS, %	73.7	
NO TRACK DRY TIME, MINUTES	4.0	
VISCOSITY, KU	82	
OPACITY (CONTRAST RATIO)	0.999	
INFRARED SPECTRA	ON FILE	

REMARKS..

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MATERIALS ENGINEER BY



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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553277
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...SOUTH CAROLINA DOHAPT
REMARKS..STR-90-085

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
COLUMBIA, SC

ITEM NO..

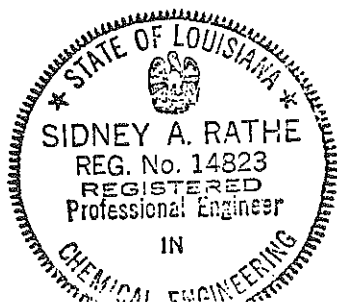
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-085	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
COLOR	YELLOW	
PIGMENT, %	56.4	
TOTAL SOLIDS, %	73.8	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	90	
OPACITY (CONTRAST RATIO)	0.996	
INFRARED SPECTRA	ON FILE	

REMARKS..

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553278
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...MISSISSIPPI SHD
REMARKS..STR-90-086
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
JACKSON, MS

ITEM NO..

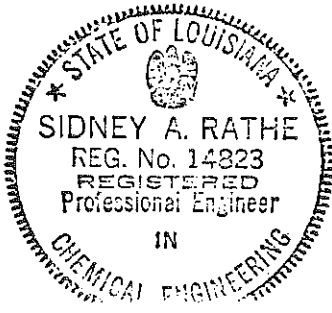
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-086	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
COLOR	YELLOW	
PIGMENT, %	47.8	
TOTAL SOLIDS, %	70.5	
NO TRACK DRY TIME, MINUTES	7.0	
VISCOSITY, KU	80	
OPACITY (CONTRAST RATIO)	0.986	
INFRARED SPECTRA	ON FILE	

REMARKS..

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553279
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...MISSISSIPPI SHD
REMARKS..STR-90-087
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
JACKSON, MS

ITEM NO..

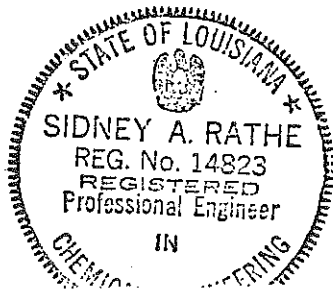
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-087	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	47.9	
TOTAL SOLIDS, %	70.4	
NO TRACK DRY TIME, MINUTES	5.0	
VISCOSITY, KU	71	
OPACITY (CONTRAST RATIO)	0.996	
INFRARED SPECTRA	ON FILE	

REMARKS..

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

08-05-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553280
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...ARKANSAS ASHATD
REMARKS..STR-90-088
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
LITTLE ROCK, AR

ITEM NO..

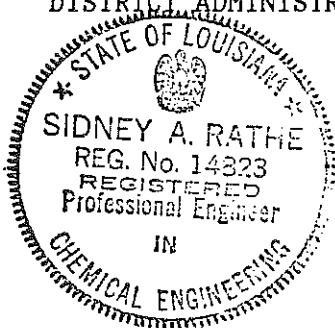
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-088	
TYPE	CHLOR ALKYD	
TYPE (CODE)	LFCPA	
COLOR	WHITE	
PIGMENT, %	52.6	
TOTAL SOLIDS, %	70.8	
NO TRACK DRY TIME, MINUTES	6.5	
VISCOSITY, KU	73	
OPACITY (CONTRAST RATIO)	1.000	
INFRARED SPECTRA	ON FILE	

REMARKS..

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MATERIALS ENGINEER BY



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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

08-05-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553281
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...ARKANSAS ASHATD
REMARKS..STR-90-089

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
LITTLE ROCK, AR

ITEM NO..

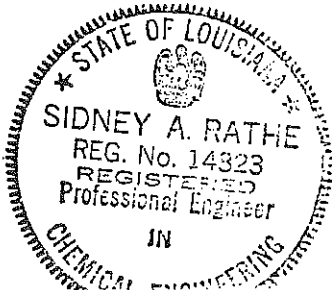
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-089	
TYPE	CHLOR ALKYD	
TYPE (CODE)	LCPA	
COLOR	YELLOW	
PIGMENT, %	54.2	
TOTAL SOLIDS, %	72.1	
NO TRACK DRY TIME, MINUTES	6.5	
VISCOSITY, KU	76	
OPACITY (CONTRAST RATIO)	0.998	
INFRARED SPECTRA	ON FILE	

REMARKS..

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EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553283
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...NORTH CAROLINA DOT
REMARKS..STR-90-091
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
RALEIGH, NC

ITEM NO..

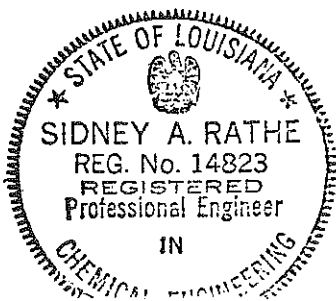
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-091	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	59.8	
TOTAL SOLIDS, %	72.5	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	110	
OPACITY (CONTRAST RATIO)	0.997	
INFRARED SPECTRA	ON FILE	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-25-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553284
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...NORTH CAROLINA DOT
REMARKS..STR-90-092
NOT TESTED DUE TO GELATION
ITEM NO..

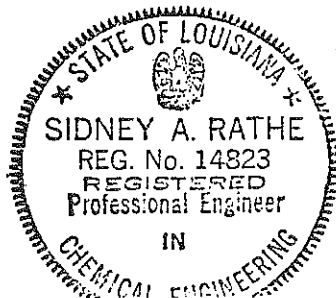
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
RALEIGH, NC

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-092	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	*	
TOTAL SOLIDS, %	*	
NO TRACK DRY TIME, MINUTES	*	
VISCOSITY, KU	*	
OPACITY (CONTRAST RATIO)	*	

REMARKS..NOT TESTED DUE TO GELATION

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MATERIALS ENGINEER BY



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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-25-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553285
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE..NORTH CAROLINA DOT
REMARKS..STR-90-093
NOT TESTED DUE TO GELATION
ITEM NO..

DATE SAMPLED..06-01-90
DATE TESTED...06-28-91
QUANTITY..... 1 GAL
SPEC CODE.....3
RALEIGH, NC

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-093	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	*	
TOTAL SOLIDS, %	*	
NO TRACK DRY TIME, MINUTES	*	
VISCOSITY, KU	*	
OPACITY (CONTRAST RATIO)	*	

REMARKS..NOT TESTED DUE TO GELATION

COPIES TO:

SASHTO REGIONAL TEST FACILITY, JACKSON, MS
DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553286
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...NORTH CAROLINA DOT
REMARKS..STR-90-094
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
RALEIGH, NC

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-094	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	68.3	
TOTAL SOLIDS, %	80.7	
NO TRACK DRY TIME, MINUTES	14.0	
VISCOSITY, KU	82	
OPACITY (CONTRAST RATIO)	0.995	
INFRARED SPECTRA	ON FILE	

REMARKS..

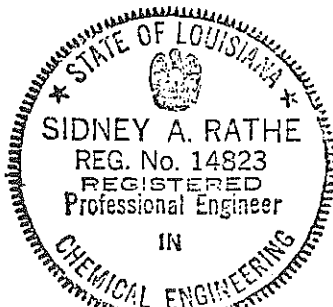
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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

P. C. Rathe

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STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553287
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...NORTH CAROLINA DOT
REMARKS..STR-90-095

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
RALEIGH, NC

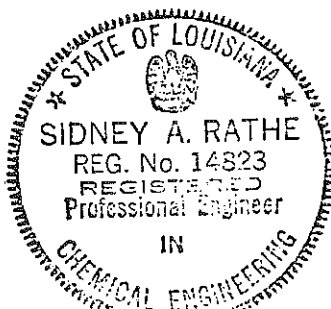
ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-095	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	55.0	
TOTAL SOLIDS, %	73.2	
NO TRACK DRY TIME, MINUTES	12.0	
VISCOSITY, KU	81	
OPACITY (CONTRAST RATIO)	0.998	
INFRARED SPECTRA	ON FILE	

REMARKS..

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553290
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...VIRGINIA DOT
REMARKS..STR-90-098
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
RICHMOND, VA

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-098	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	58.7	
TOTAL SOLIDS, %	74.7	
NO TRACK DRY TIME, MINUTES	1.5	
VISCOSITY, KU	104	
OPACITY (CONTRAST RATIO)	0.990	
INFRARED SPECTRA	ON FILE	

REMARKS..

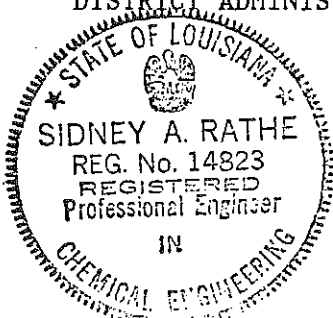
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DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

S. A. Rathe

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STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

08-05-91

PROJECT NUMBER..MATLAB	DATE SAMPLED..06-01-90
LAB NUMBER.....22-553291	DATE TESTED...06-27-91
IDENT.....	QUANTITY..... 1 GAL
PURPOSE..SOURCE APPROVAL	SPEC CODE.....3
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS	
SOURCE...VIRGINIA DOT	RICHMOND, VA
REMARKS..STR-90-099	

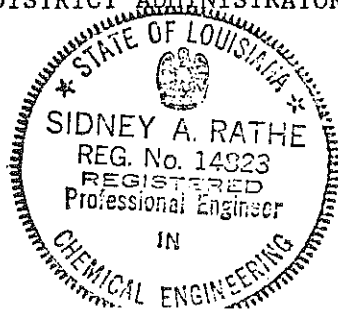
ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-099	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	YELLOW	
PIGMENT, %	55.9	
TOTAL SOLIDS, %	71.8	
NO TRACK DRY TIME, MINUTES	1.0	
VISCOSITY, KU	124	
OPACITY (CONTRAST RATIO)	1.000	
INFRARED SPECTRA	ON FILE	

REMARKS..

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553294
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...WEST VIRGINIA DOT
REMARKS..STR-90-102
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
CHARLESTON, WV

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-102	
TYPE	LEADED ALKYD	
TYPE (CODE)	LA	
COLOR	YELLOW	
PIGMENT, %	64.3	
TOTAL SOLIDS, %	77.2	
NO TRACK DRY TIME, MINUTES	1.0	
VISCOSITY, KU	104	
OPACITY (CONTRAST RATIO)	0.998	
INFRARED SPECTRA	ON FILE	

REMARKS..

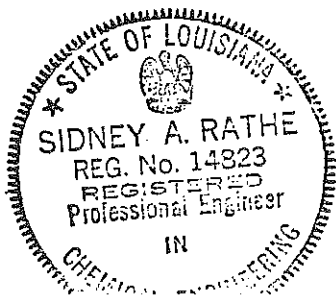
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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

A.C. Rathe

WSE



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553282
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...WEST VIRGINIA DOT
REMARKS..STR-90-103

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
CHARLESTON, WV

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-103	
TYPE	LEAD FREE ALKYD	
TYPE (CODE)	LFA	
COLOR	WHITE	
PIGMENT, %	65.0	
TOTAL SOLIDS, %	77.1	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	99	
OPACITY (CONTRAST RATIO)	0.983	
INFRARED SPECTRA	ON FILE	

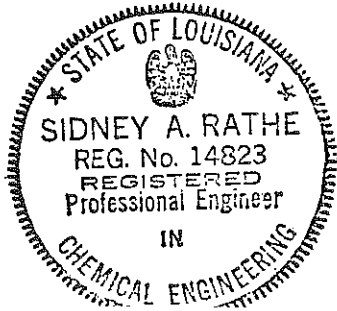
REMARKS..

COPIES TO:

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

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APPENDIX D
LABORATORY TESTS FOR WATERBORNE (ACRYLIC LATEX POLYMER)
TRAFFIC PAINT

TEST RESULTS FOR REGIONAL TEST FACILITY
FOR CALENDAR YEAR: 1990

***** WATER BORNE TRAFFIC PAINT *****

RTF I.D. NO.	PRODUCT NAME	TYPE CODE	BATCH NO.	COLOR	PIGM %	TOT SOL %	DRY TIME MIN.	OPACITY CONTRAST RATIO	VISC KU	HEAT STAB KU	FR/TH STAB KU	WATER RESISTANCE
STR-90-005	CL-0006	LFALP		WHITE	59.8	77.7	1.5	0.997	89	89	90	BLISTER, WRINKLE
STR-90-009	CL-0007	LALP		YELLOW	58.4	77.2	5.0	1.000	74	73	74	NO EFFECT
STR-90-010	CL-0011	LFALP		YELLOW	47.3	72.4	5.5	0.982	74	75	75	BLISTER, WRINKLE
STR-90-039	HOTLINE	LFALP	BP57-07	WHITE	53.0	76.0	2.0	1.000	81	81	80	NO EFFECT
STR-90-040	HOTLINE	LALP	BP57-08	YELLOW	52.4	75.6	3.5	1.000	73	77	77	NO EFFECT
STR-90-041	HOTLINE	LFALP	BP57-09	YELLOW	47.0	73.1	3.5	0.998	82	84	85	NO EFFECT
STR-90-042	HOTLINE	LFALP	BP57-10	WHITE	48.2	72.9	2.0	0.998	90	86	85	NO EFFECT
STR-90-043	HOTLINE	LFALP	BP57-11	YELLOW	43.7	70.7	3.0	1.000	77	81	81	NO EFFECT
STR-90-044	HOTLINE	LALP	BP57-12	YELLOW	47.1	72.2	3.0	1.000	86	91	88	NO EFFECT
STR-90-045	HOTLINE	LFALP	BP57-13	WHITE	53.2	73.0	2.0	0.999	95	98	97	NO EFFECT
STR-90-046	HOTLINE	LALP	BP57-14	YELLOW	53.0	73.4	5.0	1.000	89	92	92	NO EFFECT
STR-90-047	HOTLINE	LFALP	BP57-15	YELLOW	50.1	73.3	3.0	1.000	82	86	85	NO EFFECT
STR-90-048	HOTLINE	LFALP	BP57-16	WHITE	54.2	72.2	3.0	0.999	89	93	91	NO EFFECT
STR-90-057	HOTLINE	LFALP	BP57-25	YELLOW	51.0	73.5	3.5	0.995	77	81	80	BLISTER, WRINKLE
STR-90-060	LW-90-1-A	LFALP		YELLOW	50.8	73.1	5.0	0.995	81	83	82	BLISTER, WRINKLE
STR-90-061	LW-90-1-B	LFALP		WHITE	62.8	79.6	2.0	0.999	95	104	97	NO EFFECT
STR-90-063	LW-90-1-C	LALP		YELLOW	62.5	79.7	1.5	0.996	78	88	82	NO EFFECT
STR-90-068		LFALP		WHITE	46.1	71.3	11.0	0.998	84	88	87	BLISTER, WRINKLE
STR-90-069		LALP		YELLOW	46.7	72.5	1.5	0.994	106	120	109	BLISTER, WRINKLE
STR-90-082	STATE SUB	LALP		YELLOW	52.6	74.1	2.0	0.998	80	82	80	BLISTER, WRINKLE
STR-90-083	STATE SUB	LFALP		WHITE	51.1	72.9	2.5	0.999	73	84	78	BLISTER, WRINKLE
STR-90-096	STATE SUB	LFALP		WHITE	61.7	77.9	1.5	0.999	92	92	93	LOST ADHESION
STR-90-097	STATE SUB	LFALP		YELLOW	58.0	77.6	2.0	0.996	93	89	96	BLISTER, WRINKLE
STR-90-100	STATE SUB	LALP		YELLOW	57.4	77.9	3.5	0.998	82	86	85	NO EFFECT
STR-90-101	STATE SUB	LFALP		WHITE	57.7	76.8	3.5	0.994	100	120	102	NO EFFECT

25 RECORDS PRINTED

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553258
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...ENNIS/CENTERLINE, INC. ENNIS, TX
REMARKS..STR-90-005

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

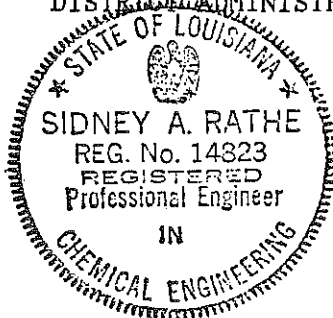
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	CL-0006	
RTF I.D. NUMBER	STR-90-005	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
COLOR	WHITE	
PIGMENT, %	59.8	
TOTAL SOLIDS, %	77.7	
NO TRACK DRY TIME, MINUTES	1.5	
VISCOSITY, KU	89	
VISCOSITY, KU - HEAT STABILITY	89	
VISCOSITY, KU - FREEZE THAW STABILITY	90	
OPACITY (CONTRAST RATIO)	0.997	
WATER RESISTANCE	BLISTER, WRINKLE	

REMARKS..

COPIES TO:

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553262
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...ENNIS/CENTERLINE, INC.
REMARKS..STR-90-009

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
ENNIS, TX

ITEM NO..

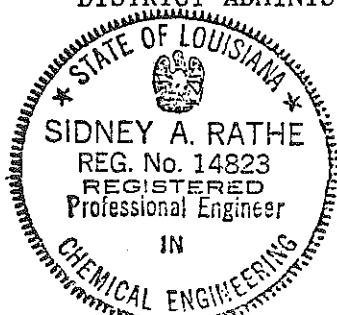
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	CL-0007	
RTF I.D. NUMBER	STR-90-009	
TYPE	WATERBORNE	
TYPE (CODE)	LALP	
COLOR	YELLOW	
PIGMENT, %	58.4	
TOTAL SOLIDS, %	77.2	
NO TRACK DRY TIME, MINUTES	5.0	
VISCOSITY, KU	74	
VISCOSITY, KU - HEAT STABILITY	73	
VISCOSITY, KU - FREEZE THAW STABILITY	74	
OPACITY (CONTRAST RATIO)	1.000	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553263
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...ENNIS/CENTERLINE, INC. ENNIS, TX
REMARKS..STR-90-010

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	CL-0011	
RTF I.D. NUMBER	STR-90-010	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
COLOR	YELLOW	
PIGMENT, %	47.3	
TOTAL SOLIDS, %	72.4	
NO TRACK DRY TIME, MINUTES	5.5	
VISCOSITY, KU	74	
VISCOSITY, KU - HEAT STABILITY	75	
VISCOSITY, KU - FREEZE THAW STABILITY	75	
OPACITY (CONTRAST RATIO)	0.982	
WATER RESISTANCE	BLISTER,WRINKLE	

REMARKS..

COPIES TO:

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553179
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-039

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

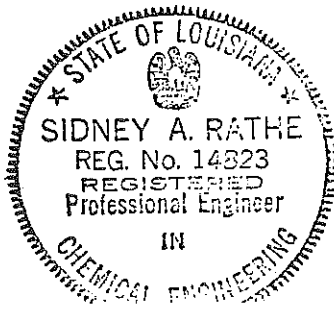
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-039	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
BATCH NUMBER	BP57-07	
COLOR	WHITE	
PIGMENT, %	53.0	
TOTAL SOLIDS, %	76.0	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	81	
VISCOSITY, KU - HEAT STABILITY	81	
VISCOSITY, KU - FREEZE THAW STABILITY	80	
OPACITY (CONTRAST RATIO)	1.000	
WATER RESISTANCE	NO EFFECT	

REMARKS..

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553180
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-040
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-040	
TYPE	WATERBORNE	
TYPE (CODE)	LALP	
BATCH NUMBER	BP57-08	
COLOR	YELLOW	
PIGMENT, %	52.4	
TOTAL SOLIDS, %	75.6	
NO TRACK DRY TIME, MINUTES	3.5	
VISCOSITY, KU	73	
VISCOSITY, KU - HEAT STABILITY	77	
VISCOSITY, KU - FREEZE THAW STABILITY	77	
OPACITY (CONTRAST RATIO)	1.000	
WATER RESISTANCE	NO EFFECT	

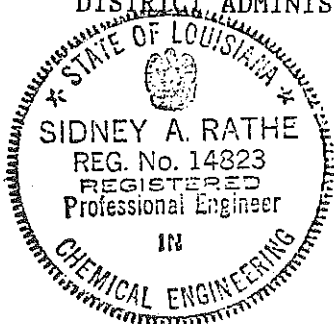
REMARKS..

COPIES TO:

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

P. A. Rathe



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553181
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-041

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

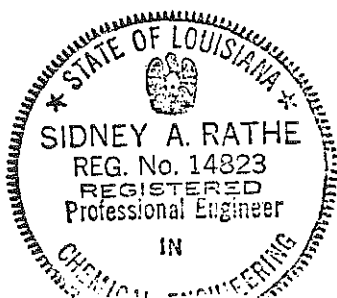
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-041	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
BATCH NUMBER	BP57-09	
COLOR	YELLOW	
PIGMENT, %	47.0	
TOTAL SOLIDS, %	73.1	
NO TRACK DRY TIME, MINUTES	3.5	
VISCOSITY, KU	82	
VISCOSITY, KU - HEAT STABILITY	84	
VISCOSITY, KU - FREEZE THAW STABILITY	85	
OPACITY (CONTRAST RATIO)	0.998	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553182
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-042

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

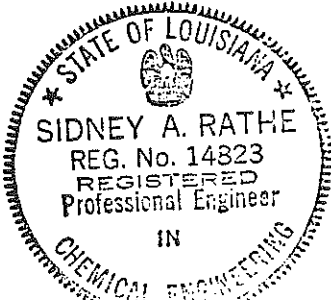
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-042	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
BATCH NUMBER	BP57-10	
COLOR	WHITE	
PIGMENT, %	48.2	
TOTAL SOLIDS, %	72.9	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	90	
VISCOSITY, KU - HEAT STABILITY	86	
VISCOSITY, KU - FREEZE THAW STABILITY	85	
OPACITY (CONTRAST RATIO)	0.998	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

SASHTO REGIONAL TEST FACILITY, JACKSON, MS
DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB	DATE SAMPLED..06-01-90
LAB NUMBER.....22-553183	DATE TESTED...06-27-91
IDENT.....	QUANTITY..... 1 GAL
PURPOSE..SOURCE APPROVAL	SPEC CODE.....3
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS	
SOURCE...BALTIMORE PAINT & CHEMICAL	BALTIMORE, MD
REMARKS..STR-90-043	

ITEM NO..

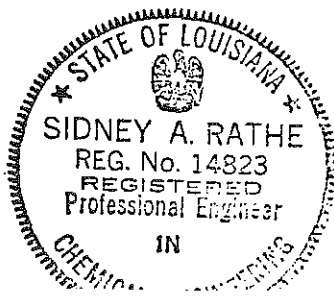
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-043	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
BATCH NUMBER	BP57-11	
COLOR	YELLOW	
PIGMENT, %	43.7	
TOTAL SOLIDS, %	70.7	
NO TRACK DRY TIME, MINUTES	3.0	
VISCOSITY, KU	77	
VISCOSITY, KU - HEAT STABILITY	81	
VISCOSITY, KU - FREEZE THAW STABILITY	81	
OPACITY (CONTRAST RATIO)	1.000	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553184
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-044

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

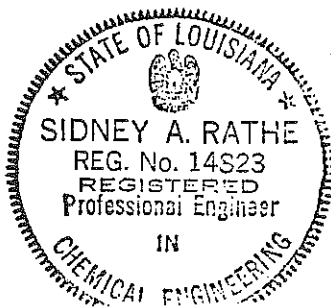
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-044	
TYPE	WATERBORNE	
TYPE (CODE)	LALP	
BATCH NUMBER	BP57-12	
COLOR	YELLOW	
PIGMENT, %	47.1	
TOTAL SOLIDS, %	72.2	
NO TRACK DRY TIME, MINUTES	3.0	
VISCOSITY, KU	86	
VISCOSITY, KU - HEAT STABILITY	91	
VISCOSITY, KU - FREEZE THAW STABILITY	88	
OPACITY (CONTRAST RATIO)	1.000	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



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EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553185
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-045

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

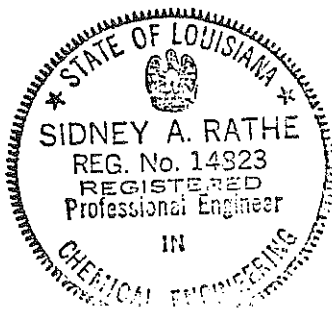
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-045	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
BATCH NUMBER	BP57-13	
COLOR	WHITE	
PIGMENT, %	53.2	
TOTAL SOLIDS, %	73.0	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	95	
VISCOSITY, KU - HEAT STABILITY	98	
VISCOSITY, KU - FREEZE THAW STABILITY	97	
OPACITY (CONTRAST RATIO)	0.999	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB DATE SAMPLED..06-01-90
LAB NUMBER.....22-553186 DATE TESTED...06-27-91
IDENT..... QUANTITY..... 1 GAL
PURPOSE..SOURCE APPROVAL SPEC CODE.....3
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-046

ITEM NO..

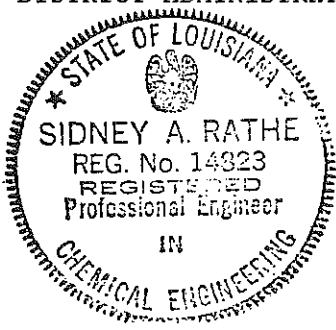
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-046	
TYPE	WATERBORNE	
TYPE (CODE)	LALP	
BATCH NUMBER	BP57-14	
COLOR	YELLOW	
PIGMENT, %	53.0	
TOTAL SOLIDS, %	73.4	
NO TRACK DRY TIME, MINUTES	5.0	
VISCOSITY, KU	89	
VISCOSITY, KU - HEAT STABILITY	92	
VISCOSITY, KU - FREEZE THAW STABILITY	92	
OPACITY (CONTRAST RATIO)	1.000	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553187
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-047

DATE SAMPLED..06-01-90
DATE TESTED...06-28-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

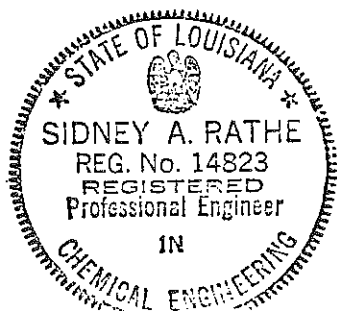
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-047	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
BATCH NUMBER	BP57-15	
COLOR	YELLOW	
PIGMENT, %	50.1	
TOTAL SOLIDS, %	73.3	
NO TRACK DRY TIME, MINUTES	3.0	
VISCOSITY, KU	82	
VISCOSITY, KU - HEAT STABILITY	86	
VISCOSITY, KU - FREEZE THAW STABILITY	85	
OPACITY (CONTRAST RATIO)	1.000	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553188
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-048
DATE SAMPLED..06-01-90
DATE TESTED...06-28-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

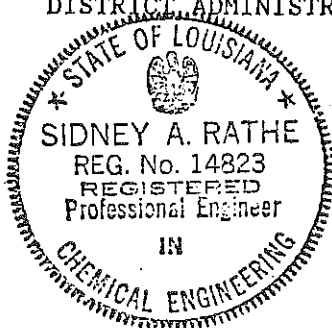
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-048	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
BATCH NUMBER	BP57-16	
COLOR	WHITE	
PIGMENT, %	54.2	
TOTAL SOLIDS, %	72.2	
NO TRACK DRY TIME, MINUTES	3.0	
VISCOSITY, KU	89	
VISCOSITY, KU - HEAT STABILITY	93	
VISCOSITY, KU - FREEZE THAW STABILITY	91	
OPACITY (CONTRAST RATIO)	0.999	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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EXCEPTION REPORT FOR THE TEST OF
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DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553189
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BALTIMORE PAINT & CHEMICAL BALTIMORE, MD
REMARKS..STR-90-057

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	HOTLINE	
RTF I.D. NUMBER	STR-90-057	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
BATCH NUMBER	BP57-25	
COLOR	YELLOW	
PIGMENT, %	51.0	
TOTAL SOLIDS, %	73.5	
NO TRACK DRY TIME, MINUTES	3.5	
VISCOSITY, KU	77	
VISCOSITY, KU - HEAT STABILITY	81	
VISCOSITY, KU - FREEZE THAW STABILITY	80	
OPACITY (CONTRAST RATIO)	0.995	
WATER RESISTANCE	BLISTER, WRINKLE	

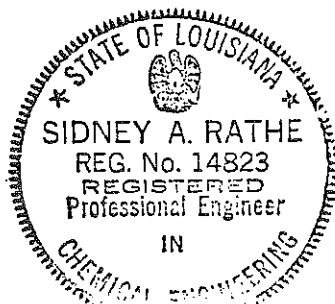
REMARKS..

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DISTRICT LAB ENGINEER
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MATERIALS ENGINEER BY

S. A. Rathe



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
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EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553253
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LINEAR DYNAMICS, INC.
REMARKS..STR-90-060

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
BALL GROUND, GA

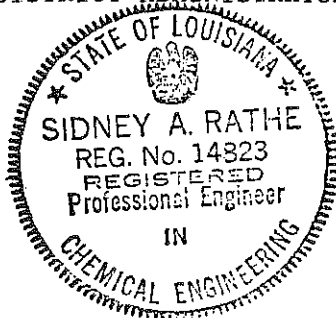
ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	LW-90-1-A	
RTF I.D. NUMBER	STR-90-060	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
COLOR	YELLOW	
PIGMENT, %	50.8	
TOTAL SOLIDS, %	73.1	
NO TRACK DRY TIME, MINUTES	5.0	
VISCOSITY, KU	81	
VISCOSITY, KU - HEAT STABILITY	83	
VISCOSITY, KU - FREEZE THAW STABILITY	82	
OPACITY (CONTRAST RATIO)	0.995	
WATER RESISTANCE	BLISTER,WRINKLE	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY

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STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553254
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LINEAR DYNAMICS, INC.
REMARKS..STR-90-061

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
BALL GROUND, GA

ITEM NO..

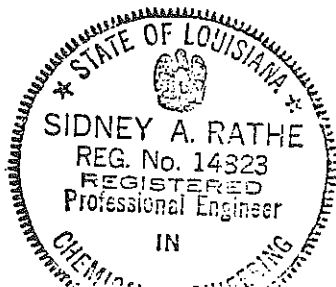
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	LW-90-1-B	
RTF I.D. NUMBER	STR-90-061	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
COLOR	WHITE	
PIGMENT, %	62.8	
TOTAL SOLIDS, %	79.6	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	95	
VISCOSITY, KU - HEAT STABILITY	104	
VISCOSITY, KU - FREEZE THAW STABILITY	97	
OPACITY (CONTRAST RATIO)	0.999	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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DISTRICT LAB ENGINEER
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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553255
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LINEAR DYNAMICS, INC.
REMARKS..STR-90-063

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
BALL GROUND, GA

ITEM NO..

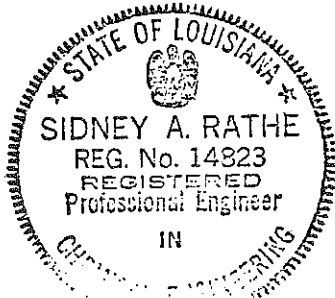
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	LW-90-1-C	
RTF I.D. NUMBER	STR-90-063	
TYPE	WATERBORNE	
TYPE (CODE)	LALP	
COLOR	YELLOW	
PIGMENT, %	62.5	
TOTAL SOLIDS, %	79.7	
NO TRACK DRY TIME, MINUTES	1.5	
VISCOSITY, KU	78	
VISCOSITY, KU - HEAT STABILITY	88	
VISCOSITY, KU - FREEZE THAW STABILITY	82	
OPACITY (CONTRAST RATIO)	0.996	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553268
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...AEXCEL, INC.
REMARKS..STR-90-068
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
WILLOUGHBY, OH

ITEM NO..

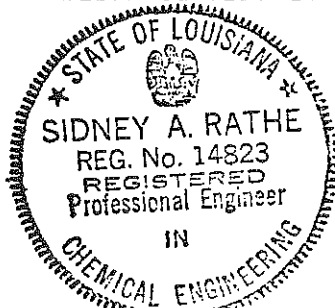
TEST PROPERTY	VALUE	REMARKS
RTF I.D. NUMBER	STR-90-068	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
COLOR	WHITE	
PIGMENT, %	46.1	
TOTAL SOLIDS, %	71.3	
NO TRACK DRY TIME, MINUTES	11.0	
VISCOSITY, KU	84	
VISCOSITY, KU - HEAT STABILITY	88	
VISCOSITY, KU - FREEZE THAW STABILITY	87	
OPACITY (CONTRAST RATIO)	0.998	
WATER RESISTANCE	BLISTER, WRINKLE	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553269
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...AEXCEL, INC.
REMARKS..STR-90-069
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
WILLOUGHBY, OH

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NUMBER	STR-90-069	
TYPE	WATERBORNE	
TYPE (CODE)	LALP	
COLOR	YELLOW	
PIGMENT, %	46.7	
TOTAL SOLIDS, %	72.5	
NO TRACK DRY TIME, MINUTES	1.5	
VISCOSITY, KU	106	
VISCOSITY, KU - HEAT STABILITY	120	
VISCOSITY, KU - FREEZE THAW STABILITY	109	
OPACITY (CONTRAST RATIO)	0.994	
WATER RESISTANCE	BLISTER, WRINKLE	

REMARKS..

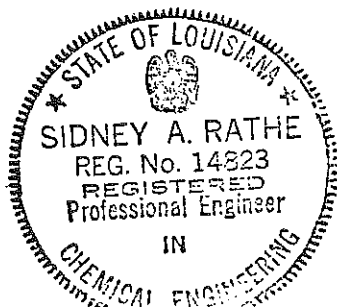
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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-30-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553274
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LOUISIANA DOTD
REMARKS..STR-90-082
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
BATON ROUGE, LA

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-082	
TYPE	WATERBORNE	
TYPE (CODE)	LALP	
COLOR	YELLOW	
PIGMENT, %	52.6	
TOTAL SOLIDS, %	74.1	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	80	
VISCOSITY, KU - HEAT STABILITY	82	
VISCOSITY, KU - FREEZE THAW STABILITY	80	
OPACITY (CONTRAST RATIO)	0.998	
WATER RESISTANCE	BLISTER, WRINKLE	

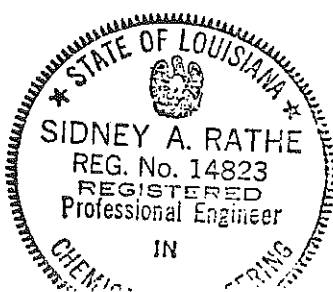
REMARKS..

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MATERIALS ENGINEER BY

P. C. Rathe



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553275
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LOUISIANA DOTD
REMARKS..STR-90-083
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
BATON ROUGE, LA

ITEM NO..

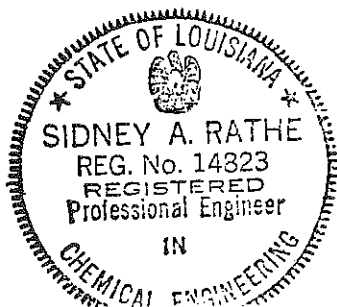
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-083	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
COLOR	WHITE	
PIGMENT, %	51.1	
TOTAL SOLIDS, %	72.9	
NO TRACK DRY TIME, MINUTES	2.5	
VISCOSITY, KU	73	
VISCOSITY, KU - HEAT STABILITY	84	
VISCOSITY, KU - FREEZE THAW STABILITY	78	
OPACITY (CONTRAST RATIO)	0.999	
WATER RESISTANCE	BLISTER, WRINKLE	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553288
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...VIRGINIA DOT
REMARKS..STR-90-096
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
RICHMOND, VA

ITEM NO..

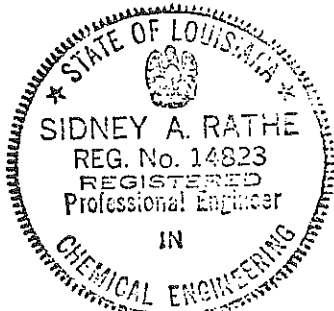
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-096	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
COLOR	WHITE	
PIGMENT, %	61.7	
TOTAL SOLIDS, %	77.9	
NO TRACK DRY TIME, MINUTES	1.5	
VISCOSITY, KU	92	
VISCOSITY, KU - HEAT STABILITY	92	
VISCOSITY, KU - FREEZE THAW STABILITY	93	
OPACITY (CONTRAST RATIO)	0.999	
WATER RESISTANCE	LOST ADHESION	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

08-05-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553289
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...VIRGINIA DOT
REMARKS..STR-90-097
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
RICHMOND, VA

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-097	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
COLOR	YELLOW	
PIGMENT, %	58.0	
TOTAL SOLIDS, %	77.6	
NO TRACK DRY TIME, MINUTES	2.0	
VISCOSITY, KU	93	
VISCOSITY, KU - HEAT STABILITY	89	
VISCOSITY, KU - FREEZE THAW STABILITY	96	
OPACITY (CONTRAST RATIO)	0.996	
WATER RESISTANCE	BLISTER, WRINKLE	

REMARKS..

COPIES TO:

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MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553292
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...WEST VIRGINIA DOT
REMARKS..STR-90-100

DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
CHARLESTON, WV

ITEM NO..

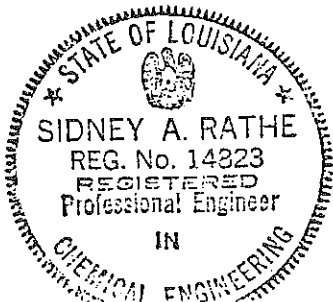
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-100	
TYPE	WATERBORNE	
TYPE (CODE)	LALP	
COLOR	YELLOW	
PIGMENT, %	57.4	
TOTAL SOLIDS, %	77.9	
NO TRACK DRY TIME, MINUTES	3.5	
VISCOSITY, KU	82	
VISCOSITY, KU - HEAT STABILITY	86	
VISCOSITY, KU - FREEZE THAW STABILITY	85	
OPACITY (CONTRAST RATIO)	0.998	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
REGIONAL TEST FACILITY TRAFFIC PAINT(252)
DISTRICT 22

07-31-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-553293
IDENT.....
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...WEST VIRGINIA DOT
REMARKS..STR-90-101
DATE SAMPLED..06-01-90
DATE TESTED...06-27-91
QUANTITY..... 1 GAL
SPEC CODE.....3
CHARLESTON, WV

ITEM NO..

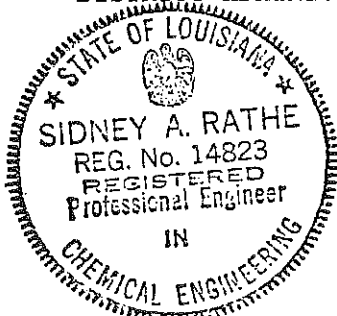
TEST PROPERTY	VALUE	REMARKS
PRODUCT NAME	STATE SUBMITTAL	
RTF I.D. NUMBER	STR-90-101	
TYPE	WATERBORNE	
TYPE (CODE)	LFALP	
COLOR	WHITE	
PIGMENT, %	57.7	
TOTAL SOLIDS, %	76.8	
NO TRACK DRY TIME, MINUTES	3.5	
VISCOSITY, KU	100	
VISCOSITY, KU - HEAT STABILITY	120	
VISCOSITY, KU - FREEZE THAW STABILITY	102	
OPACITY (CONTRAST RATIO)	0.994	
WATER RESISTANCE	NO EFFECT	

REMARKS..

COPIES TO:

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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY



APPENDIX E

LABORATORY TESTS FOR TRAFFIC STRIPING TAPE

TEST RESULTS FOR REGIONAL TEST FACILITY
FOR CALENDAR YEAR: 1990

**** TRAFFIC STRIPING TAPE ****

RTF I.D. NO.	SOURCE	PRODUCT NAME	DESCRIPTION	TYPE	COLOR	WIDTH INCHES	THICKNESS MILS	TENSILE STRENGTH LBF/IN. WIDTH
STR-90-01	VOLARE, LTD.	DIRECTOR		PERMANENT	WHITE	4	73	14.8
STR-90-02	VOLARE, LTD.	DIRECTOR		PERMANENT	YELLOW	4	64	9.7
STR-90-03	VOLARE, LTD.	DIRECTOR-2	CONST. GRADE	TEMPORARY R	WHITE	4	67	19.0
STR-90-04	VOLARE, LTD.	DIRECTOR-2	CONST. GRADE	TEMPORARY R	YELLOW	4	53	32.6
STR-90-13	3-M	SCOTCHLANE 5161	CONST. GRADE	TEMPORARY NR	YELLOW	4	18	31.9
STR-90-14	3-M	SCOTCHLANE 5160	CONST. GRADE	TEMPORARY NR	WHITE	4	17	32.0
STR-90-15	3-M	STAMARK N361	INTERSECT GRADE	PERMANENT	YELLOW	4	72	42.2
STR-90-16	3-M	STAMARK N360	INTERSECT GRADE	PERMANENT	WHITE	4	72	38.3
STR-90-17	3-M	SCOTCHLANE 5710	DETOUR GRADE	TEMPORARY R	WHITE	4	46	24.9
STR-90-18	3-M	SCOTCHLANE 5711	DETOUR GRADE	TEMPORARY R	YELLOW	4	42	26.6
STR-90-19	3-M	STAMARK 5760	PLIANT POLYMER	PERMANENT	WHITE	4	62	16.0
STR-90-20	3-M	STAMARK 5730	PLIANT POLYMER	PERMANENT	WHITE	4	56	14.6
STR-90-21	3-M	STAMARK 5731	PLIANT POLYMER	PERMANENT	YELLOW	4	55	13.3
STR-90-27	3-M	STAMARK 320		PERMANENT	WHITE	4	23	30.7
STR-90-28	3-M	STAMARK 321		PERMANENT	YELLOW	4	23	30.9
STR-90-29	3-M	STAMARK 351	PLIANT POLYMER	PERMANENT	YELLOW	4	67/36	31.7
STR-90-30	3-M	STAMARK 350	PLIANT POLYMER	PERMANENT	WHITE	4	73/44	25.2
STR-90-31	3-M	STAMARK A381	PLIANT POLYMER	PERMANENT	YELLOW	4	75/30	24.7
STR-90-32	3-M	STAMARK A380	PLIANT POLYMER	PERMANENT	WHITE	4	78/31	19.1
STR-90-58	LINEAR DYNAMICS	PRISMO PLASTIX	SERIES A	PERMANENT	WHITE	4	60	28.3
STR-90-59	LINEAR DYNAMICS	PRISMO PLASTIX	SERIES A	PERMANENT	YELLOW	4	56	25.2
STR-90-74	BRITE-LINE IND.	BRITE-LINE 1000		PERMANENT	YELLOW	4	71	19.9
STR-90-75	BRITE-LINE IND.	BRITE-LINE 1000		PERMANENT	WHITE	4	65	18.3
STR-90-76	BRITE-LINE IND.	BRITE-LINE 100		TEMPORARY R	WHITE	4	53	60.4
STR-90-77	BRITE-LINE IND.	BRITE-LINE 100		TEMPORARY R	YELLOW	4	46	65.7

25 RECORDS PRINTED

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547555
IDENT.....ST9001
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...VOLARE, LTD.
REMARKS..

DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
JACKSON, MS

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-01	
SOURCE	VOLARE, LTD.	
PRODUCT NAME	DIRECTOR	
TYPE	PERMANENT	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	73	
TENSILE STRENGTH, LBF/IN. WIDTH	14.8	

REMARKS..

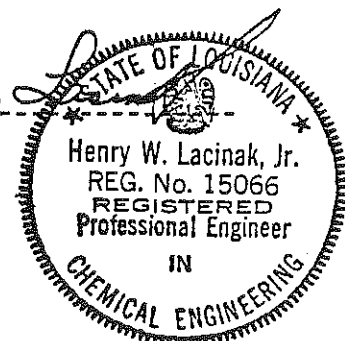
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MATERIALS ENGINEER BY

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547556
IDENT.....ST9002
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...VOLARE, LTD.
REMARKS..

DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
JACKSON, MS

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-02	
SOURCE	VOLARE, LTD.	
PRODUCT NAME	DIRECTOR	
TYPE	PERMANENT	
COLOR	YELLOW	

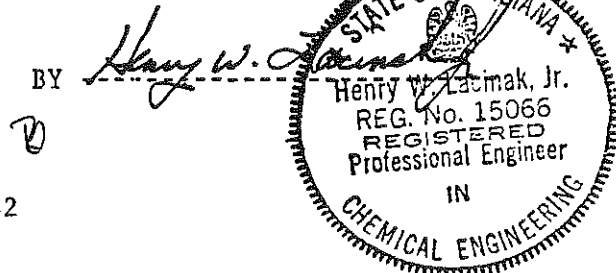
WIDTH, INCHES	4
THICKNESS, MILS	64
TENSILE STRENGTH, LBF/IN. WIDTH	9.7

REMARKS..

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MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-03-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547557
IDENT.....ST9003
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...VOLARE, LTD.
REMARKS..

DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
JACKSON, MS

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-03	
SOURCE	VOLARE, LTD.	
PRODUCT NAME	DIRECTOR-2	
DESCRIPTION	CONST. GRADE	
TYPE	TEMPORARY R	
COLOR	WHITE	

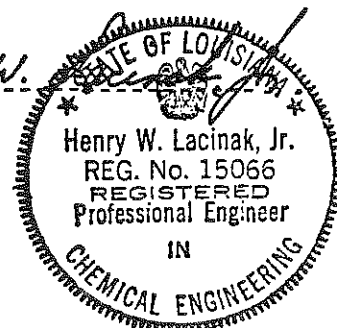
WIDTH, INCHES	4
THICKNESS, MILS	67
TENSILE STRENGTH, LBF/IN. WIDTH	19.0

REMARKS..

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EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-03-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547558
IDENT.....ST9004
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...VOLARE, LTD.
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
JACKSON, MS

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-04	
SOURCE	VOLARE, LTD.	
PRODUCT NAME	DIRECTOR-2	
DESCRIPTION	CONST. GRADE	
TYPE	TEMPORARY R	
COLOR	YELLOW	
WIDTH, INCHES	4	
THICKNESS, MILS	53	
TENSILE STRENGTH, LBF/IN. WIDTH	32.6	

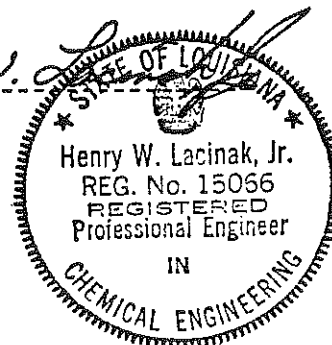
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MATERIALS ENGINEER BY

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-03-91

PROJECT NUMBER..MATLAB	DATE SAMPLED..06-14-90
LAB NUMBER.....22-547559	DATE TESTED...06-27-91
IDENT.....ST9013	QUANTITY..... 1 ROL
PURPOSE..SOURCE APPROVAL	SPEC CODE.....3
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS	
SOURCE...3M COMPANY	ST. PAUL, MN
REMARKS..	

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-13	
SOURCE	3-M	
PRODUCT NAME	SCOTCHLANE 5161	
DESCRIPTION	CONST. GRADE	
TYPE	TEMPORARY NR	
COLOR	YELLOW	
WIDTH, INCHES	4	
THICKNESS, MILS	18	
TENSILE STRENGTH, LBF/IN. WIDTH	31.9	

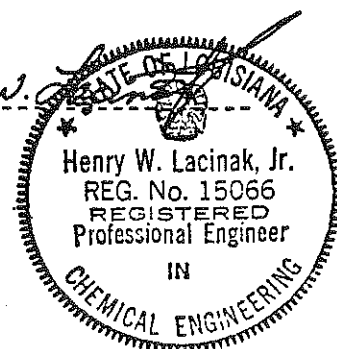
REMARKS..

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DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547560
IDENT.....ST9014
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-14	
SOURCE	3-M	
PRODUCT NAME	SCOTCHLANE 5160	
DESCRIPTION	CONST. GRADE	
TYPE	TEMPORARY NR	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	17	
TENSILE STRENGTH, LBF/IN. WIDTH	32.0	

REMARKS..

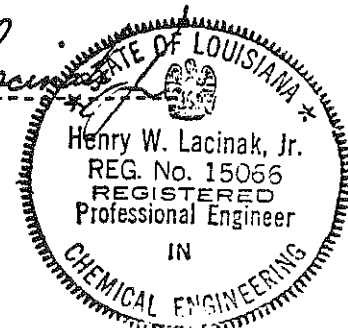
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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

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Henry W. Lacinak, Jr.



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547561
IDENT.....ST9015
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-15	
SOURCE	3-M	
PRODUCT NAME	STAMARK N361	
DESCRIPTION	INTERSECT GRADE	
TYPE	PERMANENT	
COLOR	YELLOW	

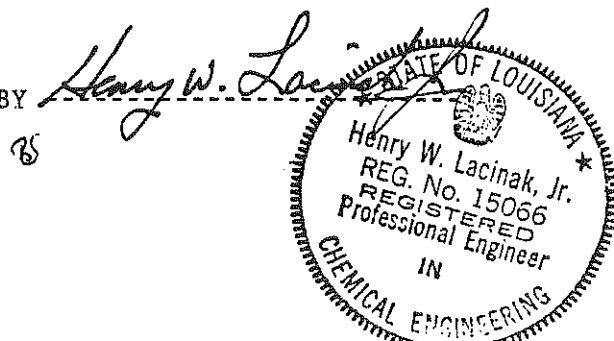
WIDTH, INCHES	4
THICKNESS, MILS	72
TENSILE STRENGTH, LBF/IN. WIDTH	42.2

REMARKS..

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MATERIALS ENGINEER BY



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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547562
IDENT.....ST9016
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-16	
SOURCE	3-M	
PRODUCT NAME	STAMARK N360	
DESCRIPTION	INTERSECT GRADE	
TYPE	PERMANENT	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	72	
TENSILE STRENGTH, LBF/IN. WIDTH	38.3	

REMARKS..

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547563
IDENT.....ST9017
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-17	
SOURCE	3-M	
PRODUCT NAME	SCOTCHLANE 5710	
DESCRIPTION	DETOUR GRADE	
TYPE	TEMPORARY R	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	46	
TENSILE STRENGTH, LBF/IN. WIDTH	24.9	

REMARKS..

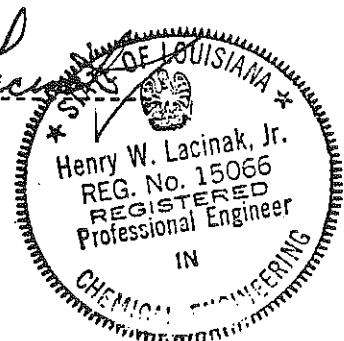
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DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB	DATE SAMPLED..06-14-90
LAB NUMBER.....22-547564	DATE TESTED...06-27-91
IDENT.....ST9018	QUANTITY..... 1 ROL
PURPOSE..SOURCE APPROVAL	SPEC CODE.....3
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS	
SOURCE...3M COMPANY	ST. PAUL, MN
REMARKS..	

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-18	
SOURCE	3-M	
PRODUCT NAME	SCOTCHLANE 5711	
DESCRIPTION	DETOUR GRADE	
TYPE	TEMPORARY R	
COLOR	YELLOW	
WIDTH, INCHES	4	
THICKNESS, MILS	42	
TENSILE STRENGTH, LBF/IN. WIDTH	26.6	

REMARKS..

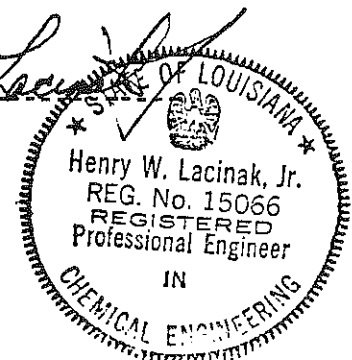
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DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547565
IDENT.....ST9019
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-19	
SOURCE	3-M	
PRODUCT NAME	STAMARK 5760	
DESCRIPTION	PLIANT POLYMER	
TYPE	PERMANENT	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	62	
TENSILE STRENGTH, LBF/IN. WIDTH	16.0	

REMARKS..

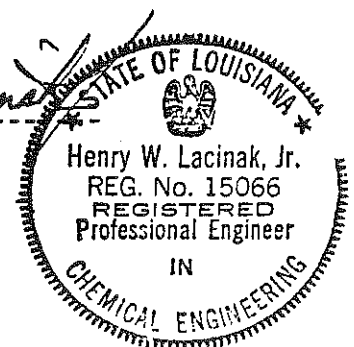
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DISTRICT LAB ENGINEER
DISTRICT ADMINISTRATOR

MATERIALS ENGINEER BY

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STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547566
IDENT.....ST9020
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY.....1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-20	
SOURCE	3-M	
PRODUCT NAME	STAMARK 5730	
DESCRIPTION	PLIANT POLYMER	
TYPE	PERMANENT	
COLOR	WHITE	

WIDTH, INCHES	4
THICKNESS, MILS	56
TENSILE STRENGTH, LBF/IN. WIDTH	14.6

REMARKS..

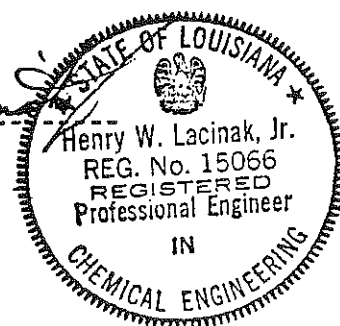
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DISTRICT LAB ENGINEER
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MATERIALS ENGINEER BY

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547567
IDENT.....ST9021
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-21	
SOURCE	3-M	
PRODUCT NAME	STAMARK 5731	
DESCRIPTION	PLIANT POLYMER	
TYPE	PERMANENT	
COLOR	YELLOW	

WIDTH, INCHES	4
THICKNESS, MILS	55
TENSILE STRENGTH, LBF/IN. WIDTH	13.3

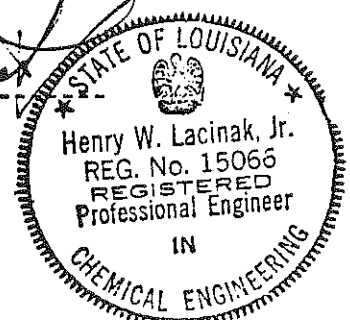
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MATERIALS ENGINEER BY

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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547568
IDENT.....ST9027
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-27	
SOURCE	3-M	
PRODUCT NAME	STAMARK 320	
TYPE	PERMANENT	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	23	
TENSILE STRENGTH, LBF/IN. WIDTH	30.7	

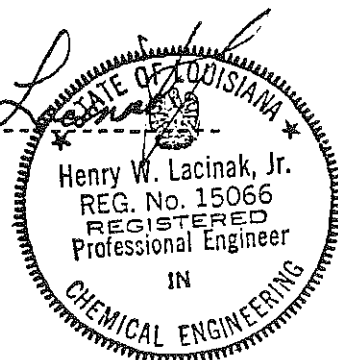
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EXCEPTION REPORT FOR THE TEST OF
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DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547569
IDENT.....ST9028
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS...
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-28	
SOURCE	3-M	
PRODUCT NAME	STAMARK 321	
TYPE	PERMANENT	
COLOR	YELLOW	

WIDTH, INCHES	4
THICKNESS, MILS	23
TENSILE STRENGTH, LBF/IN. WIDTH	30.9

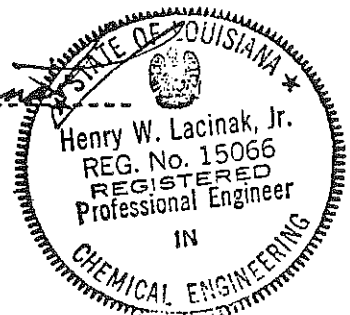
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DISTRICT 22

08-08-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547570
IDENT.....ST9029
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-29	
SOURCE	3-M	
PRODUCT NAME	STAMARK 351	
DESCRIPTION	PLIANT POLYMER	
TYPE	PERMANENT	
COLOR	YELLOW	
WIDTH, INCHES	4	
THICKNESS, MILS	67/36	
TENSILE STRENGTH, LBF/IN. WIDTH	31.7	

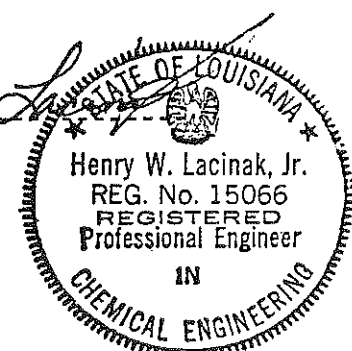
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DISTRICT 22

08-08-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547571
IDENT.....ST9030
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-30	
SOURCE	3-M	
PRODUCT NAME	STAMARK 350	
DESCRIPTION	PLIANT POLYMER	
TYPE	PERMANENT	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	73/44	
TENSILE STRENGTH, LBF/IN. WIDTH	25.2	

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08-08-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547572
IDENT.....ST9031
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY.....1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-31	
SOURCE	3-M	
PRODUCT NAME	STAMARK A381	
DESCRIPTION	PLIANT POLYMER	
TYPE	PERMANENT	
COLOR	YELLOW	
WIDTH, INCHES	4	
THICKNESS, MILS	75/30	
TENSILE STRENGTH, LBF/IN. WIDTH	24.7	

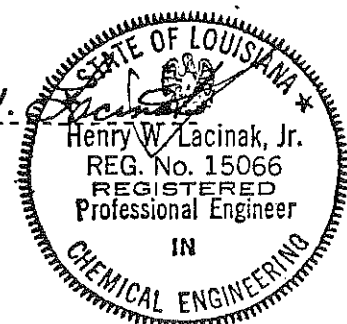
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Henry W. Lacinak, Jr.
REG. No. 15066
REGISTERED
Professional Engineer



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DISTRICT 22

08-08-91

PROJECT NUMBER.:MATLAB
LAB NUMBER.....22-547573
IDENT.....ST9032
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...3M COMPANY
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
ST. PAUL, MN

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-32	
SOURCE	3-M	
PRODUCT NAME	STAMARK A380	
DESCRIPTION	PLIANT POLYMER	
TYPE	PERMANENT	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	78/31	
TENSILE STRENGTH, LBF/IN. WIDTH	19.1	

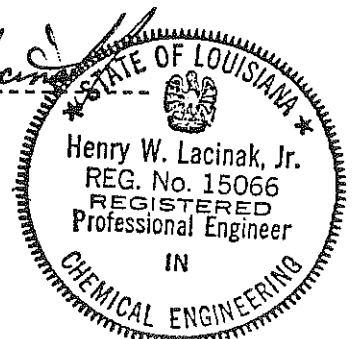
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EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547574
IDENT.....ST9058
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LINEAR DYNAMICS, INC.
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
BALL GROUND, GA

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-58	
SOURCE	LINEAR DYNAMICS	
PRODUCT NAME	PRISMO PLASTIX	
DESCRIPTION	SERIES A	
TYPE	PERMANENT	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	60	
TENSILE STRENGTH, LBF/IN. WIDTH	28.3	

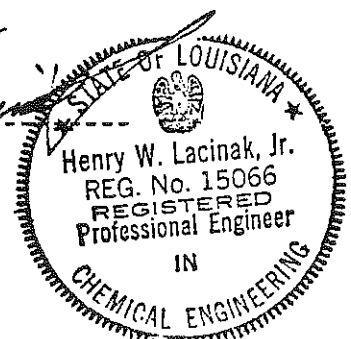
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RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547575
IDENT.....ST9059
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...LINEAR DYNAMICS, INC.
REMARKS..
DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3
BALL GROUND, GA

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-59	
SOURCE	LINEAR DYNAMICS	
PRODUCT NAME	PRISMO PLASTIX	
DESCRIPTION	SERIES A	
TYPE	PERMANENT	
COLOR	YELLOW	
WIDTH, INCHES	4	
THICKNESS, MILS	56	
TENSILE STRENGTH, LBF/IN. WIDTH	25.2	

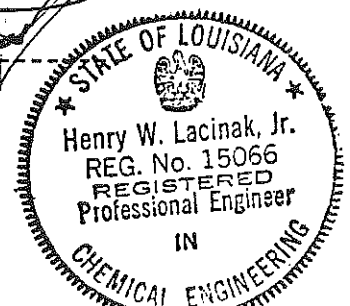
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DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547576
IDENT.....ST9074
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BRITE-LINE INDUSTRIES, INC. GOLDEN, CO
REMARKS..

DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-74	
SOURCE	BRITE-LINE IND.	
PRODUCT NAME	BRITE-LINE 1000	
TYPE	PERMANENT	
COLOR	YELLOW	
WIDTH, INCHES	4	
THICKNESS, MILS	71	
TENSILE STRENGTH, LBF/IN. WIDTH	19.9	

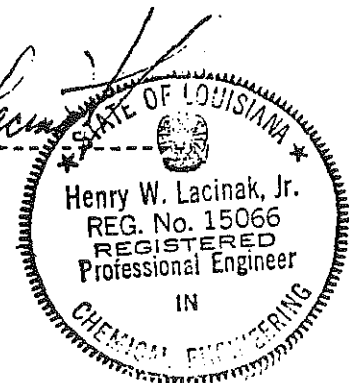
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EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
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07-02-91

PROJECT NUMBER..MATLAB	DATE SAMPLED..06-14-90
LAB NUMBER.....22-547577	DATE TESTED...06-27-91
IDENT.....ST9075	QUANTITY..... 1 ROL
PURPOSE..SOURCE APPROVAL	SPEC CODE.....3
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS	
SOURCE...BRITE-LINE INDUSTRIES, INC. GOLDEN, CO	
REMARKS..	

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-75	
SOURCE	BRITE-LINE IND.	
PRODUCT NAME	BRITE-LINE 1000	
TYPE	PERMANENT	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	65	
TENSILE STRENGTH, LBF/IN. WIDTH	18.3	

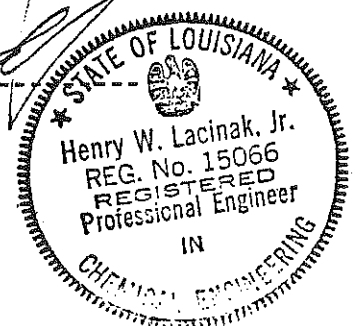
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EXCEPTION REPORT FOR THE TEST OF
RTF TRAFFIC STRIPING TAPE(253)
DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB
LAB NUMBER.....22-547578
IDENT.....ST9076
PURPOSE..SOURCE APPROVAL
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BRITE-LINE INDUSTRIES, INC. GOLDEN, CO
REMARKS..

DATE SAMPLED..06-14-90
DATE TESTED...06-27-91
QUANTITY..... 1 ROL
SPEC CODE.....3

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-76	
SOURCE	BRITE-LINE IND.	
PRODUCT NAME	BRITE-LINE 100	
TYPE	TEMPORARY R	
COLOR	WHITE	
WIDTH, INCHES	4	
THICKNESS, MILS	53	
TENSILE STRENGTH, LBF/IN. WIDTH	60.4	

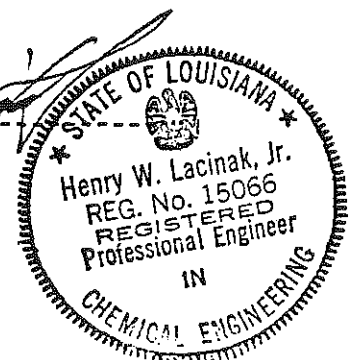
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DISTRICT 22

07-02-91

PROJECT NUMBER..MATLAB DATE SAMPLED..06-14-90
LAB NUMBER.....22-547579 DATE TESTED...06-27-91
IDENT.....ST9077 QUANTITY..... 1 ROL
PURPOSE..SOURCE APPROVAL SPEC CODE.....3
SUBMITTED BY..SASHTO REGIONAL TEST FACILITY, JACKSON, MS
SOURCE...BRITE-LINE INDUSTRIES, INC. GOLDEN, CO
REMARKS..

ITEM NO..

TEST PROPERTY	VALUE	REMARKS
RTF I.D. NO.	STR-90-77	
SOURCE	BRITE-LINE IND.	
PRODUCT NAME	BRITE-LINE 100	
TYPE	TEMPORARY R	
COLOR	YELLOW	
WIDTH, INCHES	4	
THICKNESS, MILS	46	
TENSILE STRENGTH, LBF/IN. WIDTH	65.7	

REMARKS..

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